

1940

University of Maine, Orono, Maine, Catalog Number with Records of the Sessions of 1939-1940

University of Maine

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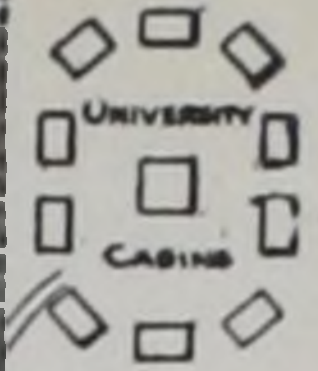


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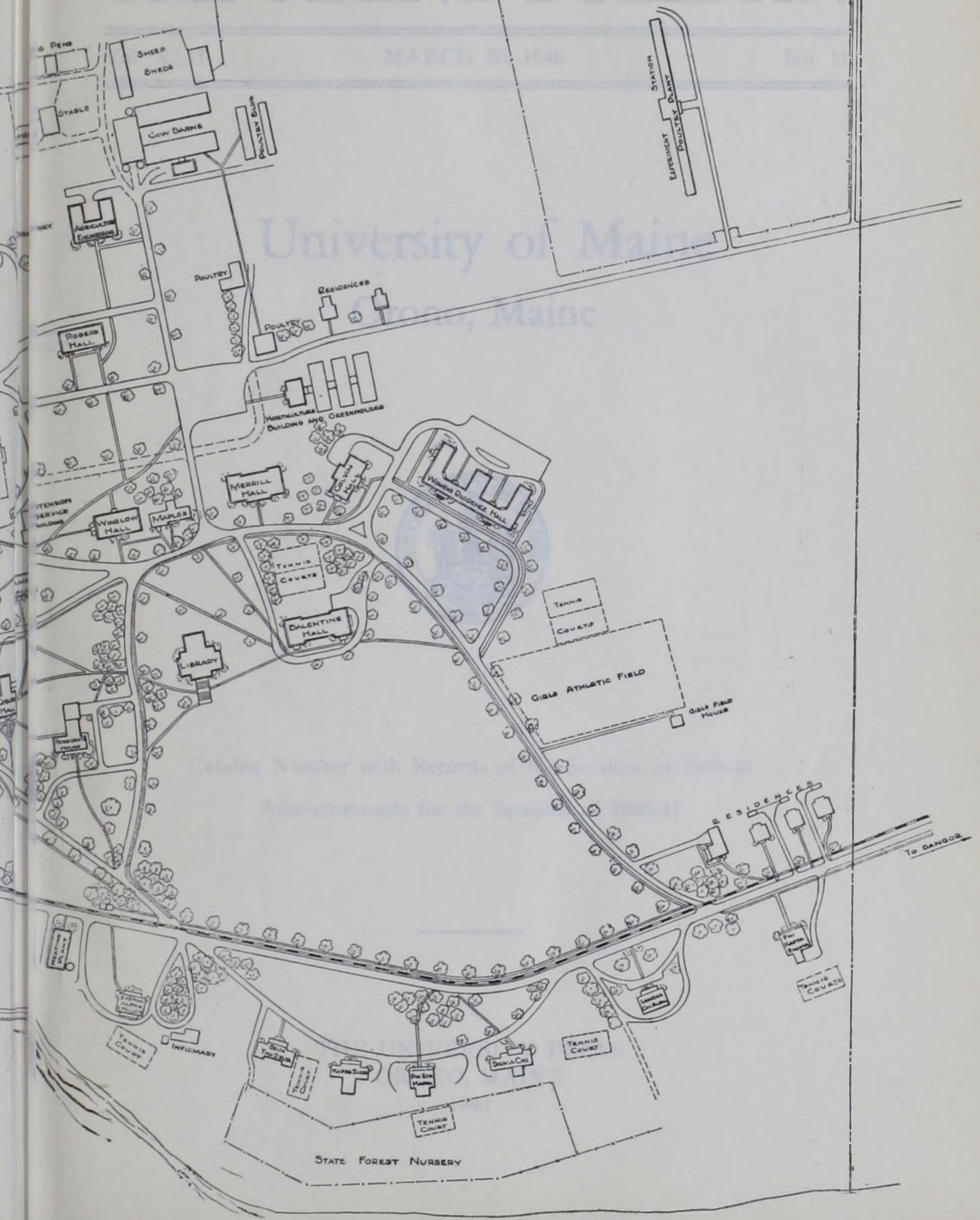
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THE MAINE BULLETIN

MARCH 28, 1940

No. 1



THE MAINE BULLETIN

Vol. XLII

MARCH 20, 1940

No. 11

University of Maine Orono, Maine



Catalog Number with Records of the Sessions of 1939-40

Announcements for the Sessions of 1940-41

THE UNIVERSITY PRESS
ORONO, MAINE
1940

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1940

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Calendar for 1939-40

Fall Semester

		1939
Entrance Examinations	Monday, Tuesday	Sept. 11, 12
First day of Freshman Week, Registration	Wednesday, 8-12 M., 1:30-3 P.M.	Sept. 13
Registration of Transfer Students	Monday, 10-12 M., 2-3 P.M.	Sept. 18
Registration of Upperclassmen	Tuesday, 8-12 M., 1:30-3 P.M.	Sept. 19
Classes begin	Wednesday, 8 A.M.	Sept. 20
Freshman reports due	Friday	Oct. 20
Mid-semester reports due	Tuesday	Nov. 21
Thanksgiving Recess begins	Wednesday, 11:30 A.M.	Nov. 29
Thanksgiving Recess		
Instruction resumed	Monday, 8 A.M.	Dec. 4
Christmas Recess begins	Friday, 11:30 A.M.	Dec. 15
Christmas Recess		
		1940
Instruction resumed	Tuesday, 8 A.M.	Jan. 2
Preliminary Registration, Arts and Sciences	Monday-Saturday	Jan. 15-20
Classes end	Wednesday, 5:05 P.M.	Jan. 24
Final Examinations begin	Thursday, 8 A.M.	Jan. 25
Examinations end; Semester ends	Friday	Feb. 2

Spring Semester

Registration	Saturday, 8-12 M.	Feb. 3
Classes begin	Monday, 8 A.M.	Feb. 5
Washington's Birthday, a holiday	Thursday	Feb. 22
Comprehensive Examinations, Arts and Sciences	Saturday	March 16
Inspection Trip, Technology	Monday-Saturday	March 18-23
Sophomore Qualifying Examinations, Technology	Friday-Saturday	March 22-23
Spring Recess begins	Saturday, 11:30 A.M.	March 23
Spring Recess		
Mid-semester reports due	Tuesday	March 26
Instruction resumed	Tuesday, 8 A.M.	April 2
Open House, Technology	Saturday	April 20
Oral Comprehensive Examinations, Arts and Sciences	Monday-Saturday	April 22-27
Preliminary Registration, Arts and Sciences	Monday-Saturday	May 13-18
Entrance Examinations	Monday-Wednesday	May 20-22
Classes end	Monday, 5:05 P.M.	May 27
Final Examinations begin	Tuesday, 8 A.M.	May 28
Examinations end	Wednesday	June 5
Sixty-ninth Annual Commencement		
Class Day	Friday	June 7
Alumni Day	Saturday	June 8
Baccalaureate Service	Sunday	June 9
Commencement Exercises	Monday	June 10

Summer Camp

Civil Engineering and Forestry Camp begins	Tuesday	June 11
Camp ends	Saturday	July 20

Summer Session

Registration	Monday, 8-12 M., 1:30-4:30 P.M.	July 1
Classes begin	Tuesday	July 2
Session ends	Friday, 12 M.	Aug. 9

Calendar for 1940-41

Fall Semester

		1940
Entrance Examinations	Monday, Tuesday	Sept. 9, 10
First day of Freshman Week, Registration	Wednesday, 8-12 M., 1:30-3 P.M.	Sept. 11
Registration of Transfer Students	Monday, 10-12 M., 2-3 P.M.	Sept. 16
Registration of Upperclassmen	Tuesday, 8-12 M., 1:30-3 P.M.	Sept. 17
Classes begin	Wednesday, 8 A.M.	Sept. 18
Freshman reports due	Friday	Oct. 18
Mid-semester reports due	Tuesday	Nov. 19
Thanksgiving Recess begins	Wednesday, 11:30 A.M.	Nov. 27
Thanksgiving Recess		
Instruction resumed	Monday, 8 A.M.	Dec. 2
Christmas Recess begins	Friday, 11:30 A.M.	Dec. 20
Christmas Recess		

		1941
Instruction resumed	Tuesday, 8 A.M.	Jan. 7
Preliminary Registration, Arts and Sciences	Monday-Saturday	Jan. 13-18
Classes end	Wednesday, 5:05 P.M.	Jan. 22
Final Examinations begin	Thursday, 8 A.M.	Jan. 23
Examinations end; Semester ends	Friday	Jan. 31

Spring Semester

Registration	Saturday, 8-12 M.	Feb. 1
Classes begin	Monday, 8 A.M.	Feb. 3
Washington's Birthday, a holiday	Saturday	Feb. 22
Comprehensive Examinations, Arts and Sciences	Saturday	March 15
Inspection Trip, Technology	Monday-Saturday	March 17-22
Sophomore Qualifying Examinations, Technology	Friday-Saturday	March 21-22
Spring Recess begins	Saturday, 11:30 A.M.	March 22
Spring Recess		
Mid-semester reports due	Tuesday	March 25
Instruction resumed	Tuesday, 8 A.M.	April 1
Open House, Technology	Saturday	April 19
Oral Comprehensive Examinations, Arts and Sciences	Monday-Saturday	April 21-26
Preliminary Registration, Arts and Sciences	Monday-Saturday	May 12-17
Entrance Examinations	Monday-Wednesday	May 19-21
Classes end	Monday, 5:05 P.M.	May 26
Final Examinations begin	Tuesday, 8 A.M.	May 27
Examinations end	Wednesday	June 4
Seventieth Annual Commencement		
Class Day	Friday	June 6
Alumni Day	Saturday	June 7
Baccalaureate Service	Sunday	June 8
Commencement Exercises	Monday	June 9

Summer Camp

Civil Engineering and Forestry Camp begins	Tuesday	June 10
Camp ends	Saturday	July 19

Summer Session

Registration	Monday, 8-12 M., 1:30-4:30 P.M.	July 7
Classes begin	Tuesday	July 8
Session ends	Friday, 12 M.	Aug. 15

Board of Trustees

EDWARD EVERETT CHASE, B.A., President	Portland
Term expires January 22, 1943	
THOMAS EDWARD HOUGHTON, Clerk	Fort Fairfield
Term expires May 6, 1941	
BERTRAM EVERETT PACKARD, B.A., LL.B., Ed.D., ex officio	Augusta
FRANK PORTER WASHBURN	Augusta
Term expires July 6, 1946	
EUGENE BOUTELLE SANGER, Ph.B., M.D., F.A.C.S.	Bangor
Term expires November 20, 1940	
RAYMOND WEBBER DAVIS, B.A.	Guilford
Term expires July 18, 1942	
WILLIAM STOCKDALE NUTTER	Sanford
Term expires June 5, 1943	
HAROLD MERLE PIERCE, B.A.	Bangor
Term expires August 2, 1942	
MRS. MAYBELLE H. BROWN	Waterville
Term expires November 20, 1940	

EXECUTIVE COMMITTEE, Davis, Packard, Washburn

Officers of Administration**OFFICERS OF THE UNIVERSITY**

PRESIDENT. Arthur Andrew Hauck, Alumni Hall; Campus.

DEAN OF MEN. Lamert Seymour Corbett, Alumni Hall; 166 College Road.

DEAN OF WOMEN. Edith Grace Wilson, 16 Stevens, South; 16 University Place.

REGISTRAR. James Adrian Gannett, Alumni Hall; 166 Main Street.

ASSISTANT REGISTRAR. Evelyn Taylor, Alumni Hall; Stillwater.

RECORDER. Addie Matilda Weed, Alumni Hall; Veazie.

DIRECTOR OF ADMISSIONS. Percy Fremont Crane, Alumni Hall; 32 Forest Avenue.

LIBRARIAN. Louis Tappe Ibbotson, Library; University Place.

UNIVERSITY PHYSICIAN. Walter Charles Hall, M.D., 20 Fernald Hall; 64 Mill Street.

TREASURER. Frederick Shaw Youngs, Alumni Hall.

*TREASURER EMERITUS. Charles John Dunn, 114 Main Street.

BUSINESS MANAGER AND PURCHASING AGENT. Henry Leroy Doten, Alumni Hall; 356 College Road.

ACCOUNTANT. Irving Pierce, Alumni Hall; 34 Sixth Street, Old Town.

STEWARD. William Carl Wells, Alumni Hall; 60 Oak Street.

ALUMNI SECRETARY AND EXECUTIVE SECRETARY, ENDOWMENT AND DONATIONS. Charles Edward Crossland, 11 Fernald Hall; 5 Riverdale.

DIRECTOR OF PLACEMENT BUREAU AND ASSISTANT ALUMNI SECRETARY. Philip Judd Brockway, 12 Fernald Hall; 90 Forest Avenue.

CATALOG EDITOR. John Raymond Crawford, 18 Stevens, South; 6 Riverdale.

OFFICERS OF DIVISIONS OF THE UNIVERSITY

COLLEGE OF AGRICULTURE. Arthur Lowell Deering, Dean, 16 Winslow Hall; 160 College Road.

COLLEGE OF ARTS AND SCIENCES. Edward Jones Allen, Dean, 100 Stevens Hall; 378 College Road.

*Deceased November 10, 1939.

SCHOOL OF EDUCATION. Olin Silas Lutes, Dean, 24 Stevens, South; College Road, Stillwater.

COLLEGE OF TECHNOLOGY. Paul Cloke, Dean, 12 Wingate Hall; 49 Forest Avenue.

GRADUATE STUDY. Roy Merle Peterson, Dean, 3 Stevens, North; 29 Bennoch Street.

SUMMER SESSION. Roy Merle Peterson, Director, 3 Stevens, North; 29 Bennoch Street.

AGRICULTURAL EXTENSION SERVICE. Arthur Lowell Deering, Director, 16 Winslow Hall; 160 College Road.

MAINE AGRICULTURAL EXPERIMENT STATION. Fred Griffec, Director, Holmes Hall; 55 Bennoch Street.

TECHNOLOGY EXPERIMENT STATION. Paul Cloke, Director, 12 Wingate Hall; 49 Forest Avenue.

OF THE DEPARTMENTS

AGRICULTURAL ECONOMICS AND FARM MANAGEMENT. Professor Merchant, 36 Winslow Hall; 17 Spencer Lane.

AGRICULTURAL EDUCATION. Professor Hill, 22 Agricultural Engineering Building; 57 College Road.

AGRONOMY AND AGRICULTURAL ENGINEERING. Professor Chucka, 2 Agricultural Engineering Building; 65 Forest Avenue.

ANIMAL INDUSTRY. Professor Cairns, 26 Rogers; 6 University Place.

BACTERIOLOGY AND BIOCHEMISTRY. Professor Hitchner, 13 Winslow Hall; 51 Bennoch Street.

BIOLOGY (AGRICULTURAL EXPERIMENT STATION). Professor Dove, Holmes Hall; 142 Park Street.

BOTANY AND ENTOMOLOGY. Professor Steinmetz, 24 Coburn Hall; 36 College Road.

CHEMISTRY AND CHEMICAL ENGINEERING. Professor Bradt, 329 Aubert Hall; 204 Broadway, Bangor.

CHEMISTRY (AGRICULTURAL EXPERIMENT STATION). Professor Tobey, Holmes Hall; 5 Pond Street.

CIVIL ENGINEERING. Professor Evans, 21 Wingate Hall; 8 Kell Street.

CLASSICS. Professor L. F. Smith, 110 Stevens Hall; 102 North Main Street.

ECONOMICS AND SOCIOLOGY. Professor Kirshen, 46 Stevens, South; 46 North Main Street.

EDUCATION. Professor Lutes, 24 Stevens, South; College Road, Stillwater.

ELECTRICAL ENGINEERING. Professor Barrows, 2 Lord Hall; 40 Myrtle Street.

ENGINEERING DRAFTING. Professor Kent, 30 Wingate Hall; 16 Sixth Street, Bangor.

ENGLISH. Professor Ellis, 200 Stevens Hall; 29 Park Street.

ENTOMOLOGY (AGRICULTURAL EXPERIMENT STATION). Professor Lathrop, Holmes Hall; 139 Main Street.

FORESTRY. Professor Demeritt, 24 Winslow Hall; 15 University Place.

GERMAN. Professor Drummond, 325 Stevens Hall; 61 Bennoch Street.

HISTORY AND GOVERNMENT. Professor E. F. Dow, 145 Stevens Hall; 65 College Road.

HOME ECONOMICS. Professor Greene, 24 Merrill Hall; 6 University Place.

HORTICULTURE. Professor Waring, Horticulture Greenhouse; 24 University Place.

MATHEMATICS AND ASTRONOMY. Professor Willard, 130 Stevens Hall; 100 Bennoch Street.

MECHANICAL ENGINEERING. Professor Watson, 16 Lord Hall; University Place.

MECHANICS. Professor Weston, 1 Fernald Hall; College Road, Stillwater.

MILITARY SCIENCE AND TACTICS. Colonel Alcott, Armory; 6 North Main Street.

MUSIC. Professor Sprague, 15 Stevens, North; 217 Union Street, Bangor.

PHILOSOPHY. Professor Levinson, 335 Stevens Hall; 78 North Main Street.

PHYSICAL EDUCATION. Professor Wallace, Memorial Gymnasium; 45 Park Street.

PHYSICS. Professor C. E. Bennett, 200 Aubert Hall; 22 Myrtle Street.

PLANT PATHOLOGY (AGRICULTURAL EXPERIMENT STATION). Professor Folsom, Holmes Hall; 63 Forest Avenue.

POULTRY HUSBANDRY. Professor Smyth, Poultry Building; 50 College Road.

PSYCHOLOGY. Professor Dickinson, 31 Stevens, North; 91 Bennoch Street.

PUBLIC SPEAKING. Professor Bailey, 240 Stevens Hall; University Place.

PULP AND PAPER TECHNOLOGY. Professor Bray, 135 Aubert Hall; 75 Bennoch Street.

ROMANCE LANGUAGES. Professor Peterson, 3 Stevens, North; 29 Bennoch Street.

SHORT COURSES. Director Loring, 11 Winslow Hall; 79 Bennoch Street.

ZOOLOGY. Professor Murray, 16 Coburn Hall; 184 Main Street.

OF THE DORMITORIES

BALENTINE HALL, Pearl Orletta Baxter, Superintendent.

B.S. in Ed., Northwestern University, 1927; M.A., Boston University, 1937.

BALENTINE HALL, Edna Lawton Sheraton, Assistant Superintendent.

R.N., New England Deaconess Hospital, 1909.

COLVIN HALL, Julia Delacour Hill Whittlesey, Superintendent.

A.B., Vassar, 1896; M.A., State Teachers College,
Montclair, New Jersey, 1935.

ELMS, Christine Whidden Lowe, Superintendent.

ELMS, Azalea Ladner Boyer, Assistant.

B.A., Maine, 1938.

MAPLES, Gertrude Hayes, Superintendent.

NORTH HALL, Mabel Frances McGinley, Superintendent.

B.S., Maine, 1905.

SOUTH HALL, Velma Katherine Oliver, Director.

B.A., Maine, 1925; M.A., 1938.

MAJOR ADMINISTRATIVE ASSISTANTS

PRESIDENT'S OFFICE. Florence Elizabeth Johnson, Secretary to the President, Alumni Hall.

DEAN'S OFFICE, COLLEGE OF AGRICULTURE. Yvonne Morin, Secretary to the Dean, 16 Winslow Hall.

DEAN'S OFFICE, COLLEGE OF ARTS AND SCIENCES. Kathleen Kelley Morin, Secretary to the Dean, 100A Stevens Hall.

DEAN'S OFFICE, SCHOOL OF EDUCATION. Thelma Demont, Secretary to the Dean, 22 Stevens, South.

DEAN'S OFFICE, COLLEGE OF TECHNOLOGY. Mildred French Creamer,
. Secretary to the Dean, 12 Wingate Hall.

DEAN OF MEN'S OFFICE. Prudence Stormann, Secretary to the Dean, Alumni Hall.

TREASURER'S OFFICE. Dorothea Lewis Miller, Secretary to the Treasurer, Alumni Hall.

DIRECTOR OF ADMISSIONS OFFICE. Paulyne Rowell, Secretary to the Director, B.A., Maine, 1927, Alumni Hall.

DIRECTOR'S OFFICE, MAINE AGRICULTURAL EXPERIMENT STATION.

Mary Norton Cameron, Secretary to the Director, Holmes Hall.

ALUMNI SECRETARY'S OFFICE. Margaret Whelpley, Secretary to the Alumni Secretary, 11 Fernald Hall.

Other Officers

LIBRARY

DOROTHY SMITH, Reference Librarian.

B.S., Simmons School of Library Science, 1921.

MARY FLORENCE REED, Cataloger.

B.A., Maine, 1929; B.S., Simmons School of Library Science, 1930.

SALLY PALMER BOGAN, Circulation Assistant.

B.A., Maine, 1927.

BARBARA LITTLEFIELD MARTIN, General Assistant.

A.B., Bates, 1935; B.S., Simmons School of Library Science, 1936.

ELAINE ELIZABETH VAN NOSTRAND, Assistant.

B.A., Maine, 1939.

MARION PATRICIA BORDEN, Assistant.

B.A., Maine, 1939.

BARBARA McLEARY, Clerk.

B.S. in Ed., Maine, 1938.

HEALTH SERVICE

BLANCHE IMELDA CASTONGUAY, Resident Health Nurse.

R.N., Queens Hospital, Portland, 1928.

HELEN LOUISE O'LEARY, Resident Health Nurse.

R.N., Eastern Maine General Hospital, Bangor, 1933.

BUILDINGS AND GROUNDS

JOHN CARROLL DEMPSEY, Acting Superintendent of Buildings and Grounds.

JOHN WHITE GLOVER, Steam Engineer.

B.S., Maine, 1915.

UNIVERSITY PRESS

ROY WESLEY LIBBY, Superintendent.

Faculty of Instruction

(Dates in parentheses indicate year of initial appointment)

RUSSELL, FREMONT LINCOLN; B.S., Maine, 1885; V.S., New York College of Veterinary Surgeons, 1886; Professor Emeritus of Bacteriology and Veterinary Science; 38½ Oak Street.

STEVENS, JAMES STACY; B.S., Rochester, 1885; M.S., 1888; M.S., Syracuse, 1889; LL.D., Rochester, 1907; Litt.D., Maine, 1922; Dean Emeritus of the College of Arts and Sciences; 175 Main Street.

COLVIN, CAROLINE; A.B., Indiana, 1893; Ph.D., University of Pennsylvania, 1901; LL.D., Maine, 1927; Professor Emeritus of History and Government.

SIMMONS, GEORGE EDWARD; B.S., Ohio Northern, 1902; M.S., 1905; B.Sc., Ohio State, 1909; D.Sc., Ohio Northern, 1922; Professor Emeritus of Agronomy; 7 Gilbert Street.

HART, JAMES NORRIS; B.C.E., Maine, 1885; C.E., 1890; S.M., Chicago, 1897; Sc.D., Maine, 1908; Ph.D., 1922; Dean Emeritus of the University and Professor Emeritus of Mathematics and Astronomy; 123 Main Street.

PATCH, EDITH MARION; B.S., Minnesota, 1901; M.S., Maine, 1910; Ph.D., Cornell University, 1911; Sc.D., Maine, 1937; Entomologist Emeritus; Braeside, College Road.

CHASE, GEORGE DAVIS; A.B., Harvard, 1889; A.M., 1895; Ph.D., 1897; LL.D., Maine, 1927; Dean Emeritus of Graduate Study and Professor Emeritus of Classics; 143 Main Street.

ABBOTT, HERBERT BURR (1920); Technician, Department of Mechanical Engineering, College of Technology; Crosby Mechanical Laboratory; 159 Stillwater Avenue. Old Town.

ALCOTT, ROBERT KERR (1935); Colonel, Infantry (D.O.L.), U. S. Army; LL.B., Minnesota, 1904; Professor of Military Science and Tactics; Armory; 6 North Main Street.

ALDOUS, CLARENCE MORONI (1936); B.S., Utah State, 1917; M.S., University of Minnesota, 1923; Associate Professor of Game Management, College of Agriculture; 9 Coburn; 67 Mill Street.

ALLEN, EDWARD JONES (1936); A.B., Colorado College, 1921; A.M., Columbia, 1923; Ph.D., 1936; Dean of the College of Arts and Sciences and Professor of Economics, member of Graduate Faculty; 100 Stevens; 378 College Road.

- ARNOLD, FRANCES ELIZABETH (1919); B.A., Maine, 1910; M.A., 1923; Assistant Professor of Romance Languages, College of Arts and Sciences; 5 Stevens, North; 11 Pond Street.
- ASHBY, STANLEY ROYAL (1930); B.A., Texas, 1904; B.A., Oxford, 1907; M.A., 1923; A.M., Harvard, 1925; Ph.D., 1927; Associate Professor of English, College of Arts and Sciences; 235 Stevens; 67 Main Street.
- ASHMAN, ROBERT IRVING (1930); A.B., Cornell University, 1913; M.F., Yale, 1929; Associate Professor of Forestry, College of Agriculture; 24 Winslow; 69 Mill Street.
- ASHWORTH, JOHN H (1919); A.B., Emory and Henry, 1906; Ph.D., Johns Hopkins, 1914; Professor of Economics, College of Arts and Sciences, member of Graduate Faculty; 44 Stevens, South; 88 North Main Street.
- BAILEY, MARK (1920); A.B., Yale, 1915; A.M., University of Michigan, 1917; Professor and Head of Department of Public Speaking, College of Arts and Sciences; 240 Stevens; University Place.
- BAKER, GREGORY (1935); B.S., Maine, 1924; M.F., Yale, 1939; Instructor in Forestry, College of Agriculture; 24 Winslow; 26 Myrtle Street.
- BARROWS, WILLIAM EDWARD (1912); B.S., Maine, 1902; E.E., 1908; Professor and Head of Department of Electrical Engineering, College of Technology, member of Graduate Faculty; 2 Lord; 40 Myrtle Street.
- BAXTER, PEARLE ORLETTA (1937); B.S. in Ed., Northwestern, 1927; M.A., Boston University, 1937; Instructor in English, College of Arts and Sciences; 225 Stevens; Balentine Hall.
- BENNETT, CLARENCE EDWIN (1934); Ph.B., Brown, 1923; Sc.M., 1924; Ph.D., 1930; Associate Professor and Head of Department of Physics, College of Arts and Sciences, member of Graduate Faculty, and coöperating member of the faculty of the School of Education; 200 Aubert; 22 Myrtle Street.
- BENNETT, EARL FREEMAN (1938); B.S., Maine, 1928; M.S., Massachusetts Institute of Technology, 1930; Instructor in Civil Engineering and Research Assistant in Technology Experiment Station, College of Technology; B1 Lord; 4 Middle Street.
- BLISS, WARREN HERBERT (1931); B.S., Michigan State College, 1928; M.S., 1931; E.E., 1939; Instructor in Electrical Engineering, College of Technology; 4 Lord; 6 North Main Street.
- BOGAN, EDGAR JUNIOR (1929); A.B., Miami, 1926; A.M., Princeton, 1929; Instructor in Chemistry, College of Technology; 425 Aubert; 36 Main Street.
- BORGMAN, BERNICE DENA (1938); B.S., Iowa State, 1934; M.S., 1935; Instructor in Home Economics, College of Agriculture; 13 Merrill; 162 College Road.

- BOWDEN, RALPH FREEMAN (1925); Technician in Department of Electrical Engineering, College of Technology; 28 Lord; 144 Park Street.
- BRADT, WILBER ELMORE (1936); A.B., Indiana, 1922; M.A., 1924; Ph.D., 1926; Professor of Chemistry and Head of Department of Chemistry and Chemical Engineering, College of Technology, member of Graduate Faculty, and coöperating member of the faculty of the School of Education; 329 Aubert; 204 Broadway, Bangor.
- BRANN, BERTRAND FRENCH (1917); B.S., Maine, 1909; M.S., 1911; S.M., Massachusetts Institute of Technology, 1912; Professor of Chemistry, College of Technology; 221 Aubert; 370 College Road.
- BRAUTLECHT, CHARLES ANDREW (1919); Ph.B., Yale, 1906; Ph.D., 1912; Professor of Chemistry and Chemical Engineering, College of Technology, member of Graduate Faculty; 333 Aubert; 63 Bennoch Street.
- BRAY, PAUL DECOSTA (1923); B.S., Maine, 1914; Ch.E., 1918; Professor of Chemical Engineering and Pulp and Paper Technology, and Head of Division of Pulp and Paper Technology, College of Technology, member of Graduate Faculty; 135 Aubert; 75 Bennoch Street.
- BRICE, FRED MANSFIELD (1921); Professor of Physical Education; Memorial Gymnasium; 13 Pine Street.
- BRICKER, HERSCHEL LEONARD (1928); A.B., Coe, 1928; Assistant Professor of Public Speaking, College of Arts and Sciences; 330 Stevens; 58 Main Street.
- BRUSH, EDWARD NEWCOMB (1928); A.B., Vermont, 1925; A.M., Harvard, 1926; Ph.D., 1932; Associate Professor of Psychology, College of Arts and Sciences, member of Graduate Faculty; 43 Stevens, North; 391 College Road.
- BRYAN, NOAH ROSENBERGER (1922); B.A., Pennsylvania State, 1913; A.M., University of Pennsylvania, 1918; Ph.D., Columbia, 1921; Associate Professor of Mathematics, College of Arts and Sciences, member of Graduate Faculty; 135 Stevens; 4 University Place.
- BURTT, EVERETT JOHNSON, JR. (1939); A.B., Berea, 1935; M.A., Duke, 1937; Instructor in Economics, College of Arts and Sciences; 44 Stevens, South; 3 Riverdale.
- BUZZELL, MARION STEPHANIE (1919); B.A., Maine, 1914; M.A., 1915; Assistant Professor of Romance Languages, College of Arts and Sciences; 5 Stevens, North; 222 North Brunswick Street, Old Town.
- CAIRNS, GORDON MANN (1939); B.S., Cornell University, 1936; M.S., 1938; Associate Professor and Head of Department of Animal Industry, College of Agriculture, member of Graduate Faculty; 26 Rogers; 6 University Place.

- CASSIDY, MARGARET EILEEN (1937); Diploma, Sargent School for Physical Education, 1928; B.S. in Ed., Maine, 1939; Instructor in Physical Education for Women; Alumni; 363 State Street, Bangor.
- CAULFIELD, JOHN GEORGE LESLIE (1926); B.S., Maine, 1924; M.S., 1926; Assistant Professor of Pulp and Paper Technology, College of Technology; 135 Aubert; 208 French Street, Bangor.
- CHADBOURNE, AVA HARRIET (1915); B.A., Maine, 1915; M.A., 1918; A.M., Columbia, 1919; Ph.D., 1928; Professor of Education, School of Education, member of Graduate Faculty; 14 Stevens, South; Stillwater.
- CHADBOURNE, WALTER WHITMORE (1922); B.A., Maine, 1920; M.B.A., Harvard, 1922; Ph.D., 1935; Professor of Economics and Business Administration, College of Arts and Sciences; 30 Stevens, South; 59 College Road.
- CHAPMAN, CHAUNCEY WALLACE LORD (1919); B.S., Maine, 1914; M.S., 1921; Assistant Professor of Forestry. College of Agriculture; 24 Winslow; 13 Park Street.
- CHUCKA, JOSEPH ANTHONY (1934); B.S., Wisconsin, 1927; M.S., 1928; Ph.D., 1930; Professor of Agronomy and Head of Department of Agronomy and Agricultural Engineering, College of Agriculture, member of Graduate Faculty; 2 Agricultural Engineering Building; 65 Forest Avenue.
- CLAPP, ROGER (1929); B.S., Cornell University, 1928; M.S., Maine, 1932; Assistant Professor of Horticulture, College of Agriculture; Horticulture Greenhouse; 35 Oak Street.
- CLOKE, PAUL (1926); E.E., Lehigh, 1905; M.S., 1913; Eng.D., Maine, 1934; Dean of the College of Technology, Director of the Technology Experiment Station, and Professor of Electrical Engineering, member of Graduate Faculty; 12 Wingate; 49 Forest Avenue.
- COGGESHALL, REGINALD (1936); A.B., Harvard, 1916; A.M., 1932; Assistant Professor of English, College of Arts and Sciences, and Director of University Publicity; 340 Stevens; 60 Forest Avenue.
- CONEY, BEATRICE (1937); B.S., East Texas State Teachers College, 1928; M.S., Iowa State College, 1937; Assistant Professor of Home Economics, College of Agriculture, member of Graduate Faculty; 13 Merrill; 43 Main Street.
- COOPER, GERALD PAUL (1936); B.S., Michigan State Normal, 1931; M.A., University of Michigan, 1932; Instructor in Zoology, College of Arts and Sciences; 7 Coburn; 15 Pond Street.
- COOPER, JAMES GORDON, JR., (1938); Major, Infantry (D.O.L.), U. S. Army; Associate Professor of Military Science and Tactics; Armory; 32 College Road.

- CORBETT, LAMERT SEYMOUR (1913) ; B.S., Massachusetts State, 1909 ; B.S.A., Boston University, 1909 ; M.S., Kentucky, 1913 ; Dean of Men ; Alumni ; 166 College Road.
- CRABTREE, KENNETH GERARD (1926) ; S.B., Massachusetts Institute of Technology, 1923 ; Assistant Professor of Electrical Engineering, College of Technology ; 4 Lord ; 43 Main Street.
- CRANDON, MARY PERKINS (1937) ; B.A., Maine, 1923 ; M.A., Bryn Mawr, 1924 ; Instructor in English, College of Arts and Sciences ; 220 Stevens ; Bennoch Road, Stillwater.
- CRAWFORD, JOHN RAYMOND (1930) ; B.A., Culver-Stockton, 1924 ; M.A., State University of Iowa, 1929 ; Ph.D., 1931 ; Assistant Professor of Education and Director of Bureau of Educational Research and Service, School of Education, member of Graduate Faculty ; Catalog Editor ; 18 Stevens, South ; 6 Riverdale.
- CREAMER, WALTER JOSEPH (1919) ; B.S., Maine, 1918 ; E.E., 1921 ; B.A., 1923 ; Professor of Communication Engineering, College of Technology, Director of Freshman Week, member of Graduate Faculty ; 28A Lord ; 331 Center Street, Bangor.
- CROFUTT, CHARLES BURTON (1926) ; B.A., Cornell College, 1919 ; M.S., State University of Iowa, 1920 ; Ph.D., 1923 ; Associate Professor of Physics, College of Arts and Sciences, member of Graduate Faculty ; 300 Aubert ; 30 Mill Street.
- CROSBY, RUTH (1929) ; A.B., Mount Holyoke, 1919 ; A.M., Radcliffe, 1920 ; Ph.D., 1929 ; Assistant Professor of English, College of Arts and Sciences ; 230 Stevens ; 56 Main Street.
- CURTIS, JAMES DILLON (1939) ; B.A., University of British Columbia, 1929 ; B.A.Sc., 1930 ; M.F., Harvard, 1935 ; Assistant Professor of Forestry, College of Agriculture ; 24 Winslow ; 23 Spencer Lane.
- CURTIS, THEODORE SMALL (1930) ; B.S., Maine, 1923 ; Faculty Manager of Athletics ; Memorial Gymnasium ; 10 Gilbert Street.
- DAVEE, EVERETT WILLARD (1903) ; Instructor in Mechanical Engineering, College of Technology ; Mechanical Shops ; 46 College Road.
- DEERING, ARTHUR LOWELL (1912) ; B.S., Maine, 1912 ; Sc.D., 1934 ; Dean of the College of Agriculture and Director of Extension Service, member of Graduate Faculty ; 16 Winslow ; 160 College Road.
- DEMERRITT, DWIGHT BURGESS (1934) ; B.S., Maine, 1922 ; M.F., Yale, 1923 ; Professor and Head of Department of Forestry, College of Agriculture, member of Graduate Faculty ; 24 Winslow ; 15 University Place.
- DICKINSON, CHARLES ALEXIUS (1926) ; A.M., Clark, 1922 ; Ph.D., 1925 ; Professor and Head of Department of Psychology, College of Arts and Sciences, member of Graduate Faculty, and coöperating member of the

faculty of the School of Education; 31 Stevens, North; 91 Bennoch Street.

DIRKS, CHARLES ORVILLE (1927); B.S., Kansas State College, 1924; M.S., Iowa State College, 1925; Ph.D., Cornell University, 1935; Associate Professor of Entomology, College of Agriculture, member of Graduate Faculty; 32 Coburn; 9 Peters Street.

DORSEY, LLEWELLYN MORSE (1917); B.S., Maine, 1916; M.S., 1923; Professor of Dairy Husbandry, College of Agriculture, member of Graduate Faculty; 28 Rogers; 67 Bennoch Street.

DOW, EDWARD FRENCH (1929); B.S., Bowdoin, 1925; A.M., Harvard, 1926; Ph.D., 1932; Professor and Head of Department of History and Government, College of Arts and Sciences, member of Graduate Faculty, and coöperating member of the faculty of the School of Education; 145 Stevens; 65 College Road.

DOW, GEORGE FARRINGTON (1934); B.S., Maine, 1927; M.S., 1929; Ph.D., Cornell University, 1938; Associate Professor of Agricultural Economics and Farm Management, College of Agriculture; 38 Winslow; 35 Park Street.

DRUMMOND, ROBERT RUTHERFORD (1909); B.S., Maine, 1905; Ph.D., University of Pennsylvania, 1909; Professor and Head of Department of German, College of Arts and Sciences, member of Graduate Faculty; 325 Stevens; 61 Bennoch Street.

DUSENBURY, DELWIN BENNETT (1938); B.A., Wisconsin, 1936; M.A., Minnesota, 1937; Instructor in Public Speaking, College of Arts and Sciences; 350 Stevens; 74 North Main Street.

ELLIOTT, WALLACE HENRY (1937); B.S., Maine, 1926; M.S., Cornell University, 1937; Assistant Professor of Agricultural Education, College of Agriculture; 22 Agricultural Engineering Building; 38 North Main Street.

ELLIS, MILTON (1919); B.A., Maine, 1907; M.A., 1908; A.M., Harvard, 1909; Ph.D., 1913; Professor and Head of Department of English, College of Arts and Sciences, member of Graduate Faculty, and coöperating member of the faculty of the School of Education; 200 Stevens; 29 Park Street.

EVANS, WESTON SUMNER (1920); B.S., Maine, 1918; M.S., 1923; Professor and Head of Department of Civil Engineering, College of Technology, member of Graduate Faculty; 21 Wingate; 8 Kell Street.

FLEWELLING, HOWARD LLOYD (1932); A.B., Dartmouth, 1921; M.A., Maine, 1929; Ph.D., University of Michigan, 1932; Assistant Professor of English, College of Arts and Sciences; 230 Stevens; Stillwater Avenue, Stillwater.

- FULLER, JOHN LANGWORTHY (1937) ; B.S., Bates, 1931 ; Ph.D., Massachusetts Institute of Technology, 1935 ; Instructor in Zoology, College of Arts and Sciences ; 21a Coburn ; 43 Pine Street.
- GANNETT, JAMES ADRIAN (1908) ; B.S., Maine, 1908 ; M.A., 1928 ; Registrar ; Alumni ; 166 Main Street.
- GARDNER, LEIGH PHILBROOK (1920) ; B.S., Maine, 1918 ; M.S., 1923 ; Assistant Professor of Poultry Husbandry, College of Agriculture ; Poultry Building ; 45 Oak Street.
- GEBHARD, JOHN WENDELL (1939) ; A.B., Wayne University, 1934 ; M.A., University of Michigan, 1936 ; Instructor in Psychology, College of Arts and Sciences ; 39 Stevens, North ; 391 College Road.
- *GILLILAND, WILLIAM LESTER (1927) ; B.S., University of Washington, 1920 ; M.S., 1921 ; Ph.D., Massachusetts Institute of Technology, 1925 ; Assistant Professor of Chemistry, College of Technology.
- GLANVILLE, ALBERT DOUGLAS (1937) ; A.B., Cornell University, 1927 ; M.A., Illinois, 1928 ; Ph.D., Cornell University, 1932 ; Instructor in Psychology, College of Arts and Sciences ; 39 Stevens, North ; 158 Main Street.
- GOULD, GLADYS MARIE (1928) ; B.S., Maine, 1922 ; Part-Time Instructor in Home Economics in charge of Student Teaching, College of Agriculture ; Brewer High School ; 33 Park Street, Bangor.
- GREENE, PEARL STUART (1923) ; B.A., Northwestern, 1909 ; B.S., Lewis Institute, 1914 ; A.M., Columbia, 1923 ; Professor and Head of Department of Home Economics, College of Agriculture, member of Graduate Faculty ; 24 Merrill ; 6 University Place.
- HALL, HOWE WIGGIN (1923) ; B.S., Maine, 1914 ; M.S., 1925 ; Assistant Professor of Animal Husbandry, College of Agriculture ; 25 Rogers ; 24 Crosby Street.
- HARABOSKY, ROMAN HENRY (1937) ; Sergeant (D.E.M.L.), Coast Artillery, U. S. Army ; Instructor in Military Science and Tactics ; Armory ; 14 Pond Street.
- HAUCK, ARTHUR ANDREW (1934) ; A.B., Reed, 1915 ; Ph.D., Columbia, 1932 ; LL.D., Lafayette, 1936 ; LL.D., New Hampshire, 1937 ; President of the University ; Alumni ; Campus.
- HAW, JOSEPH CUMMING (1936) ; B.S., United States Military Academy, 1915 ; Lieutenant Colonel, Coast Artillery Corps (D.O.L.), U. S. Army ; Associate Professor of Military Science and Tactics ; Armory ; 25 Park-view Avenue, Bangor.
- HAWTHORNE, MANNING (1938) ; A.B., Bowdoin, 1930 ; M.A., University of North Carolina, 1937 ; Instructor in English, College of Arts and Sciences ; 345 Stevens ; 362 Stillwater Avenue, Old Town.

*On leave of absence, fall semester, 1939-40.

- HENKLE, HARRY LYNN (1937); Major, Infantry (D.O.L.), U. S. Army; Associate Professor of Military Science and Tactics; Armory; 17 Peters Street.
- HIGHLANDS, MATTHEW EDWARD (1935); B.A., Maine, 1928; S.M., Massachusetts Institute of Technology, 1934; Assistant Professor of Bacteriology, College of Agriculture; 13 Winslow; 54 Main Street.
- HILL, ARTHUR ST. JOHN (1918); E.E., Polytechnic Institute of Brooklyn, 1911; M.S.E., University of Michigan, 1932; E.E., 1937; Professor of Electrical Engineering, College of Technology, member of Graduate Faculty; 5 Lord; 9 Kell Street.
- HILL, HERBERT STAPLES (1918); A.B., Bowdoin, 1905; Professor and Head of Department of Agricultural Education, College of Agriculture; 22 Agricultural Engineering Building; 57 College Road.
- HITCHNER, ELMER REEVE (1922); B.S., Pennsylvania State, 1915; M.S., 1916; Ph.D., Wisconsin, 1931; Professor of Bacteriology and Head of Department of Bacteriology and Biochemistry, College of Agriculture, member of Graduate Faculty; 13 Winslow; 51 Bennoch Street.
- HOBBAH, REGINALD VYVYAN (1937); B.S., University of Pittsburgh, 1931; M.A., 1934; Instructor in Economics and Business Administration, College of Arts and Sciences; 30 Stevens, South; 1 Spencer Lane.
- HUDDILSTON, JOHN HOMER (1899); B.A., Baldwin-Wallace, 1890; M.A., 1892; A.B., Harvard, 1893; Ph.D., Munich, 1898; Professor of Ancient Civilization and Lecturer on Art History, College of Arts and Sciences; 36 Stevens, South; 193 Main Street.
- †HYLAND, FAY (1926); B.S., Michigan State College, 1925; M.S., Maine, 1929; Assistant Professor of Botany, College of Agriculture.
- IBBOTSON, LOUIS TAPPE (1928); A.B., Hamilton, 1922; B.L.S., University of the State of New York, 1925; Librarian; Library; University Place.
- JACKMAN, ERNEST DELMORE (1930); A.B., Colby, 1912; A.M., Columbia, 1924; Associate Professor of Education and Director of Teacher Training, School of Education, member of Graduate Faculty; 10 Stevens, South; College Road, Stillwater.
- JENKINS, CHESTER ALBERT (1928); B.S., Dartmouth, 1911; M.S., Maine, 1931; Professor of Physical Education; Memorial Gymnasium; University Place.
- JENNESS, LYLE CLAYTON (1923); B.S., New Hampshire, 1922; M.S., Maine, 1925; Associate Professor of Chemistry, College of Technology; 103A Aubert; 80 Forest Avenue.

†On leave of absence, 1939-40.

- ✓ JONES, ALFRED WELWOOD (1939); A.B., Columbia College, 1937; A.M., Columbia University, 1939; Instructor in Mathematics, College of Arts and Sciences; 120 Stevens; 68 Main Street.
- JONES, MAURICE DANIEL (1913); B.S., Maine, 1912; M.S., 1927; Professor of Agricultural Economics and Farm Management and Manager of University Farm, College of Agriculture, member of Graduate Faculty; 36 Winslow; 164 College Road.
- JORDAN, MAYNARD FRED (1919-21) (1925); B.A., Maine, 1916; M.A., 1921; Associate Professor of Mathematics and Astronomy, College of Arts and Sciences; 130 Stevens; University Place.
- KELLEY, CALISTA BERTHENA (1938); B.S., Vermont, 1927; M.A., St. Lawrence, 1932; Instructor in Home Economics, College of Agriculture; 33a Merrill; 48 Main Street.
- KENT, BENJAMIN CALVIN (1918); B.S., Maine, 1912; Professor and Head of Department of Engineering Drafting, College of Technology; 30 Wingate; 16 Sixth Street, Bangor.
- KENYON, WILLIAM CURTIS (1926); Instructor in Physical Education; Memorial Gymnasium; 83 Main Street.
- KIMBALL, SPOFFORD HARRIS (1936); B.S., Denison, 1923; M.A., Pittsburgh, 1925; A.M., Harvard, 1929; Ph.D., 1932; Assistant Professor of Mathematics, College of Arts and Sciences; 135 Stevens; 66 College Road.
- KIRSHEN, HIMY BENJAMIN (1929); B.S., Whitman, 1926; A.M., Columbia, 1929; Ph.D., Wisconsin, 1937; Professor of Economics and Head of Department of Economics and Sociology, College of Arts and Sciences, member of Graduate Faculty, and coöperating member of the faculty of the School of Education; 46 Stevens, South; 46 North Main Street.
- KLEIN, JOHN FREDERICK (1933); A.B., Cornell University, 1912; A.M., 1913; Ph.D., 1920; Associate Professor of German, College of Arts and Sciences; 320 Stevens; 66 College Road.
- LAMOREAU, FRED LINCOLN (1930); B.A., Maine, 1930; M.A., 1934; Assistant Professor of Mathematics and Astronomy, College of Arts and Sciences; 120 Stevens; 28 Penobscot Street.
- LAMSON, HERBERT DAY (1935); Ph.B., Brown, 1924; A.M., 1925; A.M., Harvard, 1934; Ph.D., 1935; Associate Professor of Sociology, College of Arts and Sciences; 42 Stevens, South; 77 Bennoch Street.
- LARSEN, KARL DAVIS (1934); B.A., Maine, 1929; M.A., 1930; Ph.D., Pennsylvania State, 1934; Assistant Professor of Physics, College of Arts and Sciences; 304 Aubert; 39 Pine Street.
- LEAVITT, HAROLD WALTER (1917); B.S., Maine, 1915; C.E., 1918; M.S., 1921; Professor of Highway Engineering, and Secretary of Technology Experiment Station, College of Technology; 5 Wingate; 7 Park Street.

- LEKBERG, HOWARD PARKER (1937) ; B.S., Worcester Polytechnic Institute, 1932; Instructor in Mechanical Engineering, College of Technology; 14 Lord; 43 Pine Street.
- LENGYEL, HELEN ANNA (1924) ; Diploma, Sargent School for Physical Education, 1915; B.A., Maine, 1927; M.A., 1936; Associate Professor of Physical Education for Women; Alumni; 11 Main Street.
- LEVINSON, RONALD BARTLETT (1926) ; A.B., Harvard, 1919; Ph.D., Chicago, 1924; Professor and Head of Department of Philosophy, College of Arts and Sciences, member of Graduate Faculty; 335 Stevens; 78 North Main Street.
- LIBBY, WINTHROP CHARLES (1934) ; B.S., Maine, 1932; M.S., 1933; Assistant Professor of Agronomy, College of Agriculture; 2 Agricultural Engineering Building; 66 College Road.
- LORING, FRED PERLEY (1934) ; B.S., Maine, 1916; M.S., 1936; Director of Short Courses, College of Agriculture; 11 Winslow; 79 Bennoch Street.
- LOUPRET, GEORGE JOSEPH (1936) ; Captain, Coast Artillery Corps (D.O.L.), U. S. Army; Assistant Professor of Military Science and Tactics; Armory; University Place.
- LUCAS, WARREN STANHOPE (1922) ; B.A., Maine, 1914; M.A., 1922; Assistant Professor of Mathematics, College of Arts and Sciences; 120 Stevens; Spring Street, Stillwater.
- LUTES, OLIN SILAS (1926) ; A.B., Ohio University, 1915; M.A., State University of Iowa, 1923; Ph.D., 1926; Dean of the School of Education and Professor of Education, member of Graduate Faculty; 24 Stevens, South; College Road, Stillwater.
- LYON, ALPHEUS CROSBY (1912) ; B.S., Maine, 1902; S.B., Massachusetts Institute of Technology, 1904; C.E., Maine, 1913; Associate Professor of Civil Engineering, College of Technology; 3 Wingate; 735 Main Street, Bangor.
- MCCARTHY, CECILIA AGNES (1937) ; S.B., Simmons, 1917; A.M., Columbia, 1935; Assistant Professor of Home Economics, College of Agriculture; 15a Merrill; 43 Main Street.
- MCNEARY, MATTHEW (1937) ; B.S., Pennsylvania State, 1932; Instructor in Engineering Drafting, College of Technology; 41 Wingate; 148 College Road.
- MARTIN, FREDERIC THURMAN (1934) ; Ch.E., Lehigh, 1925; Ph.D., Johns Hopkins, 1929; Instructor in Chemistry, College of Technology; 207 Aubert; 13 Pond Street.
- MENDALL, HOWARD LEWIS (1937) ; B.A., Maine, 1931; M.A., 1934; Instructor in Game Management, College of Agriculture; 9 Coburn; 28 Pendleton Street, Brewer.

- MERCHANT, CHARLES HENRY (1924); B.S., Cornell University, 1920; M.S., 1922; Ph.D., 1928; Professor and Head of Department of Agricultural Economics and Farm Management, College of Agriculture, member of Graduate Faculty; 36 Winslow; 17 Spencer Lane.
- MEYER, EUGENE CLARENCE (1938); B.S., (Agri.) Wisconsin, 1932; B.S., (Eng.) 1933; M.S., 1936; Assistant Professor of Agricultural Engineering, College of Agriculture; 22 Agricultural Engineering Building; 144 Essex Street, Bangor.
- MILES, EDWIN KENNETH (1933); B.A., Lawrence, 1929; M.A., Northwestern, 1930; Ph.D., University of Pennsylvania, 1933; Assistant Professor of German, College of Arts and Sciences; 320 Stevens; 6 North Main Street.
- MORROW, RISING LAKE (1934); B.A., Wesleyan, 1923; A.M., Harvard, 1925; Ph.D., 1932; Assistant Professor of History and Government, College of Arts and Sciences, member of Graduate Faculty; 150 Stevens; 66 College Road.
- MURRAY, JOSEPH MAGEE (1934); B.A., Maine, 1925; M.A., University of Michigan, 1927; Ph.D., 1929; Professor and Head of Department of Zoology, College of Arts and Sciences, member of Graduate Faculty, and coöperating member of the faculty of the School of Education; 16 Coburn; 184 Main Street.
- MUSGRAVE, MARGUERITE RUTH (1929); B.S., Columbia, 1925; A.M., 1926; Assistant Professor of Home Economics, College of Agriculture; 31a Merrill; 33 Main Street.
- NELSON, ELVEN CLIFFORD (1933); B.A., University of Colorado, 1929; M.A., 1930; Sc.D., Johns Hopkins, 1933; Assistant Professor of Zoology, College of Arts and Sciences; 14 Coburn; 86 North Main Street.
- NESBITT, MARGARET KATHERINE (1938); B.A., Ohio State University, 1930; M.A., 1931; Assistant Professor of Home Economics, College of Agriculture; 11a Merrill; 24 University Place.
- NIEDERFRANK, EVLON JOY (1935); B.S., Oregon State College, 1932; M.S., 1935; Assistant Professor of Agricultural Economics and Farm Management, College of Agriculture; 35 Winslow; 23 Crosby Street.
- NOLAN, WILLIAM JOHN (1938); Ch.E., Rensselaer Polytechnic Institute, 1929; Ph.D., University of Michigan, 1936; Associate Professor of Chemical Engineering, College of Technology; 115 Aubert; 169 Center Street, Bangor.
- OGDEN, EUGENE CECIL (1938); B.S., Michigan State, 1932; M.S., Maine, 1934; A.M., Harvard, 1936; Ph.D., 1938; Instructor in Botany, College of Agriculture; 26 Coburn; 36 Main Street.

- OSGOOD, CARL CHAPIN (1939); B.S., Maine, 1938; Instructor in Mechanical Engineering, College of Technology; Mechanical Shops; Sigma Chi House.
- OTTO, CARL EVERETT (1924); B.A., Cincinnati, 1916; M.A., 1920; Ph.D., 1922; Associate Professor of Chemistry, College of Technology; 421 Aubert; 430 College Road.
- PEDLOW, JOHN THOMAS (1936); B.S., Pennsylvania State, 1925; M.S., Rutgers, 1926; Ph.D., Pennsylvania State, 1934; Assistant Professor of Biochemistry, College of Agriculture; 15 Winslow; 20 Myrtle Street.
- PELLETIER, LAWRENCE LEE (1939); A.B., Bowdoin, 1936; A.M., Harvard, 1939; Instructor in History and Government, College of Arts and Sciences; 350 Stevens; Bennoch Road.
- PERKINS, HARRY ROY (1917); Instructor in Mechanical Engineering, College of Technology; Mechanical Shops; Spring Street, Stillwater.
- PETERSON, ROY MERLE (1918); A.B., Coe, 1906; A.M., Harvard, 1910; Ph.D., 1912; F.A.A.R.; Professor and Head of Department of Romance Languages, College of Arts and Sciences, Director of the Summer Session, Dean of Graduate Faculty, and coöperating member of the faculty of the School of Education; 3 Stevens, North; 29 Bennoch Street.
- PIERCE, WILBUR PARKER (1939); A.B., Dartmouth, 1931; M.S., Vermont, 1934; Ph.D., Wisconsin, 1939; Instructor in Botany, College of Agriculture; 31 Coburn; 40 College Road.
- PRAGEMAN, IRVING HENRY (1927); Ph.B., Yale, 1918; M.E., 1923; Associate Professor of Mechanical Engineering, College of Technology; 14 Lord; 58 Main Street.
- RALEIGH, STEPHEN MARTIN (1934); B.S., Kansas State College, 1927; Ph.D., Minnesota, 1934; Assistant Professor of Agronomy, College of Agriculture; 2 Agricultural Engineering Building; 150 Park Street.
- REYNOLDS, CECIL JOHN (1935); B.Sc., Mount Allison, 1926; B.A., 1927; B.A., Oxford, 1929; B.Litt., 1930; A.M., Harvard, 1932; Instructor in English, College of Arts and Sciences; 245 Stevens; 5 Forest Avenue.
- RILEY, RICHARD McVAY (1929); B.S., Ohio University, 1926; M.S., Cornell University, 1929; Assistant Professor of Horticulture, College of Agriculture; Horticulture Greenhouse; 151 Park Street.
- RINKAUS, JOSEPH JAMES (1935); Sergeant (D.E.M.L.), U. S. Army; Instructor in Military Science and Tactics; Armory; 31A Mill Street.
- ROBERTS, EVERETT LOUIS (1921); B.S., Maine, 1920; Assistant Professor of Electrical Engineering, College of Technology; 3 Lord; 4 Summer Street.

- ROGERS, MARION ELIZABETH (1927) ; Diploma, Sargent School for Physical Education, 1927 ; B.A., Maine, 1930 ; M.A., 1936 ; Assistant Professor of Physical Education for Women ; Alumni ; 57 College Road.
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LEWIS POLLARD ROBERTS, Piscataquis County.

B.S., Maine, 1931

WILFRED SHERMAN ROWE, Cumberland County.

MELZOR STETSON SMITH, Penobscot County.

B.S., Maine, 1931

GARDNER BERRY TIBBETTS, Hancock County.

B.S., Maine, 1922

RALPH CARLTON WENTWORTH, Knox and Lincoln Counties.

B.S., Maine, 1918

Home Demonstration Agents

HORTENSE BRADBURY, Washington County.

B.S., Maine, 1935

PAULINE SMITH BUDGE, Somerset County.

B.S., Maine, 1935

RUTH ISABEL CALLAGHAN, Oxford County.

B.S., Maine, 1933

FRANCES CISAR, Piscataquis County.

B.S., South Dakota State College, 1928

ESTHER LOUISE DUNHAM, Knox and Lincoln Counties.

B.S., Framingham Normal, 1933

AGNES FREYER GIBBS, Cumberland County.

B.S., Framingham Normal, 1926

GERTRUDE ALICE HARRIS, Franklin County.

B.S., Rhode Island State, 1936

BARBARA HIGGINS, Waldo County.

B.S., Maine, 1930

JESSIE MILDRED LAWRENCE, Aroostook County.

B.S., Maine, 1928

JEANNETTE LINTON, Kennebec County.

S.B., Simmons, 1937

GLADYS WINNIFRED MARBLE, York County.

S.B., Simmons, 1919

ADA MILDRED ROGERS, Hancock County.

B.S., Farmington Normal, 1934

JENNIE MAY SWETT, Penobscot County.

B.S., Nasson, 1933

MARY LOUISE WRIGHT, Androscoggin and Sagadahoc Counties.

B.S., Maine, 1938

County Club Agents

SPURGEON KEARNEY BENJAMIN, Waldo County.

B.S., Maine, 1935

EARLE THEODORE BLODGETT, York County.

B.S., Maine, 1927

LUCY MARGARET COBB, Penobscot County.

B.S., Maine, 1938

HERBERT ARTHUR LEONARD, Cumberland County.

B.S., Maine, 1939

LUCINDA EWER RICH, Knox and Lincoln Counties.

B.S., Maine, 1937

WAYNE SCHERMERHORN RICH, Androscoggin and Sagadahoc Counties.

B.S., Maine, 1934

DORIS ELEANOR ROSEN, Oxford County.

B.S., Maine, 1934

DEBORAH FLORENCE STEVENS, Aroostook County.

B.S., Maine, 1920

Committees of the University Faculty

ADMINISTRATION—President, College Deans, Dean of Men, Registrar,
· Treasurer.

ASSEMBLIES—Lutes, Loring, Morrow, Sprague, A. W., Watson, H. D.

ATHLETICS—Corbett, Gardner, A. K., Kent.

COE RESEARCH FUND—Dickinson, Ashby, Brautlecht, Griffie, Hill, A. S.,
Hitchner, Peterson, Steinmetz.

EDUCATIONAL RESEARCH—Crawford, Bennett, C. E., Brautlecht, Brush, Bryan,
Dow, E. F., Evans, Greene, Jackman, Jones, Kirshen, Lamson, Leavitt,
Merchant, Sweetman, Watson, H. D.

ELIGIBILITY—Gannett, Curtis, Sprague, A. W., Wilson, E. G.

FINANCIAL AFFAIRS—Youngs, Kent, Pierce.

HEALTH—Corbett, Hall, W. C., Lengyel, Wallace, Wilson, E. G.

MAINE STUDIES—Hitchner, Bradt, Ellis, Ibbotson, Lutes, Morrow, Peterson.

MILITARY—Alcott, Hauck, Allen, Cloke, Deering, Lutes.

PUBLICATIONS—Gannett, Coggeshall, Crawford, Ibbotson, Leavitt,
Libby, W. C.

PUBLICITY—Coggeshall, Bray, Crawford, Crossland, Gannett, Smyth.

RADIO—Crossland, Crawford, Creamer, Dusenbury, Larsen, Lathrop, Loring.

RHODES SCHOLARSHIP—Ashby, Bradt, Corbett, Gannett, Morrow.

SCHEDULE—Gannett, Dorsey, Evans, Peterson, Weston, and College Deans.

SECONDARY SCHOOL RELATIONS—Crane, Allen, Cloke, Deering, Lutes.

SCHOLARSHIPS—Brann, Chadbourne, A. H., Crane, Creamer, Ellis, Greene,
Loring, Wilson, E. F.

SOCIAL AFFAIRS—Watson, H. D., Corbett, Stewart, Wilson, E. G., Youngs.

WOMEN STUDENTS—Wilson, E. G., Buzzell, Chadbourne, A. H., Crandon,
Greene, Lengyel, Sweetman.

GENERAL INFORMATION

HISTORY

The University of Maine is a part of the public educational system of the State. It was established originally as the State College of Agriculture and the Mechanic Arts under the provisions of the Morrill Act, approved by President Lincoln in 1862. The next year the State of Maine accepted the conditions of the Act and in 1865 created a corporation to administer the affairs of the college.

The institution opened September 21, 1868, with a class of twelve members and a faculty of two teachers; Dr. Merritt Caldwell Fernald was appointed acting president. By 1871 four curricula had been arranged—Agriculture, Civil Engineering, Mechanical Engineering, and Elective. By gradual growth these curricula developed into the College of Agriculture, the College of Technology, and the College of Arts and Sciences. Women have been admitted as students since 1872, in compliance with special legal enactment. The original name was changed to the University of Maine in 1897. The School of Education was established in 1930.

The Maine Agricultural Experiment Station was established as a division of the University by act of the Legislature of 1887, as a result of the passage by Congress of the Hatch Act. It succeeded the Maine Fertilizer Control and Agricultural Experiment Station, which had been established in 1885.

The College of Law was opened in 1898. It was an integral part of the institution and until the year 1917 occupied quarters at the corner of Union and Second streets in Bangor. Later it was located on the campus at Orono. It was discontinued in 1920.

Graduate instruction has been given by various departments for many years. The first master's degree was conferred in 1881. Since 1923 graduate work has been a separate division in charge of a dean.

Beginning with 1902, a Summer Session has usually been held annually, consisting at first of five weeks, but now of six. It is designed primarily for teachers and educational administrators and for college students who desire to make up work or secure additional credits.

To provide permanently for the support of the University, the Legislature in 1929 passed an act levying a tax of one mill on the general property valuation of the State.

The University is controlled by a Board of Trustees. The first Board was composed of sixteen members, each county delegation in the Legislature selecting one member. Various changes have occurred in the appointment of Trustees. At the present time seven members are appointed by the Governor of the State, with the advice and consent of the Council, for a term of seven years. One member is appointed for three years by the Governor upon the nomination of the Alumni Association. The Commissioner of Education is ex officio a member of the Board.

The institution has been served by the following presidents: Rev. Charles Frederick Allen, Dr. Merritt Caldwell Fernald, Dr. Abram Winegardner Harris, Dr. George Emory Fellows, Dr. Robert Judson Aley, Dr. Clarence Cook Little, Dr. Harold Sherburne Boardman, and Dr. Arthur Andrew Hauck.

LOCATION

The University is located in Orono, an attractive town of 3,300 population on the main line of the Maine Central Railroad. It is about half way between Kittery, the most southerly town in the State, and Fort Kent, the most northerly; it is thus not far from the center of population of the State.

The extensive campus of over two hundred acres, situated about a mile from the business section of Orono, borders the Stillwater River, a branch of the Penobscot, and is of great beauty. The University is approximately nine miles distant from Bangor and three miles from Old Town. Route 2, passing the campus, connects it with these cities and offers easy access by automobile. Cars of the Bangor Hydro-Electric Company afford a half-hour trolley service in both directions.

Bangor, the third city of the State in size, has a population of about 29,000 and is an important business center. The location of the University gives students an opportunity to avail themselves of its various advantages. Old Town is a manufacturing city with about 7,200 inhabitants.

BUILDINGS AND THEIR EQUIPMENT

BALENTINE HALL (1914-1916).—A women's dormitory, with accommodations for 115 students and an infirmary. Named in honor of Elizabeth Abbott Balentine, secretary and registrar of the University, 1894-1913.

COLVIN HALL (1930).—A women's dormitory with accommodations for forty-eight students. Named in honor of Dr. Caroline Colvin, Professor Emeritus of History and Government and the first dean of women at the University.

WOMEN'S DORMITORY (1940).—A women's dormitory with accommodations for 160 students.

THE ELMS.—A women's coöperative dormitory located on College Road near the Stillwater bridge and accommodating fifty-four students.

HANNIBAL HAMLIN HALL (1911).—A freshman men's dormitory with accommodations for 153 students. Named for the Hon. Hannibal Hamlin, of Hampden and Bangor, the first president of the Board of Trustees.

NORTH HALL.—A freshman men's dormitory with accommodations for twenty-eight students.

OAK HALL (1937).—A modern, fireproof dormitory housing ninety-five freshman men students. This new building, like the "Oak Hall" built in 1871, which it replaces, is named for the Hon. Lyndon Oak, of Garland, a long-time member and president of the Board of Trustees.

ALUMNI HALL (1901) contains administrative offices, a gymnasium for women, and a Little Theatre. It received its name because of contributions made by alumni to supply a part of the funds for its erection.

ALUMNI MEMORIAL, consisting of an Indoor Field, Armory, and Gymnasium, was erected as a memorial to the Maine men who died in the service of their country in the Spanish-American and World Wars. It cost nearly \$500,000, and is the gift of alumni, students, faculty, and friends of the University. The Indoor Field (1926), one of the largest in the country, provides ample facilities for indoor track, winter baseball practice, and military drill. The Armory (1926) houses offices and classrooms of the military unit, including an indoor rifle range. The Gymnasium (1933) contains the offices of the Athletic and Physical Education departments, equipment and training rooms for handball, boxing, wrestling, and corrective exercise, shower and locker rooms for students, faculty, and visiting teams, and an auditorium with a seating capacity of approximately 2500, used for basketball, lectures, student assemblies, banquets, and dances.

AUBERT HALL (1914) houses the Departments of Chemistry and Chemical Engineering, including the Pulp and Paper Division, and Physics. It was named in honor of Alfred Bellamy Aubert, professor of chemistry from 1874 to 1909.

COBURN HALL (1888) houses the Department of Botany and Entomology and the Department of Zoology. It was named for the Hon. Abner Coburn, of Skowhegan, a former president of the Board of Trustees and benefactor of the University.

CROSBY LABORATORY (1928) contains the laboratories of the Department of Mechanical Engineering. It was named for the Hon. Oliver Crosby, Class of '76, who bequeathed \$100,000 for its construction.

FERNALD HALL (1870), the oldest building on the campus, contains offices and classrooms used by the College of Technology, the offices of the Alumni Association and the Placement Bureau, the University Store, and the quarters of the Health Department. It was named in honor of ex-President Merritt Caldwell Fernald.

HOLMES HALL (1888) is the building used by the Maine Agricultural Experiment Station. It received its name from Dr. Ezekiel Holmes, of Winthrop.

LIBRARY BUILDING (1906) was erected and furnished by the generosity of Andrew Carnegie, who gave \$55,000 for that purpose. The Hallowell Granite Works supplied the granite at a price equivalent to a gift of several thousand dollars.

LORD HALL (1904) is used by the Departments of Electrical Engineering and Mechanical Engineering. It was named for the Hon. Henry Lord, a former president of the Board of Trustees.

MERRILL HALL (1931) is devoted to work in Home Economics. It was named for Dr. Leon S. Merrill, dean of the College of Agriculture from 1911 to 1933.

ROGERS HALL (1928) houses the divisions of Animal Husbandry and Dairy Husbandry of the Department of Animal Industry and contains laboratories for the manufacture of dairy products. It was named in honor of Dr. Lore A. Rogers, Class of '96, chief of research laboratories, Bureau of Dairy Industry, U. S. Department of Agriculture.

STEVENS HALL (1924), with two wings constructed in 1933, supplies accommodations for the larger part of the work of the College of Arts and Sciences and also the School of Education. It was named in honor of Dean Emeritus James S. Stevens, for many years dean of the College of Arts and Sciences.

WINGATE HALL (1892) is used by the Departments of Civil Engineering and Engineering Drafting and in addition contains the Technology Experiment Station laboratories. It was named for the Hon. William P. Wingate, a former president of the Board of Trustees.

WINSLOW HALL (1909) is used by various departments of the College of Agriculture and the Extension Service. It was named for the late Hon. Edward B. Winslow, of Portland, a former president of the Board of Trustees.

Other buildings comprise the Agricultural Engineering Building, Horticultural Greenhouses, Milk House, Poultry Buildings, Research Building,

Stock Judging Pavilion, Mechanical Engineering Shops, Maine Christian Association Building, Observatory, Men's Infirmary, Print Shop, Home Management House, the Central Heating Plant, the President's house, several residences occupied by faculty members, and various farm buildings.

MARINE STATION.—The University of Maine Marine Biological Station is located at East Lamoine on the northeast shore of Frenchman's Bay within fifty miles of the University. The buildings provide adequate housing for laboratories, research workers, students and faculty. A pier with 400 foot frontage, row boats, and a motor boat, and various types of collecting apparatus facilitate marine investigation. Both research work and organized class work are carried on at the Station in the summer.

FRATERNITY HOUSES.—The local chapters of Beta Theta Pi, Delta Tau Delta, Kappa Sigma, Lambda Chi Alpha, Phi Kappa Sigma, Sigma Alpha Epsilon, Sigma Chi, Theta Chi, Sigma Nu, and the Phi Eta Kappa Society have houses on the campus. The following chapters own houses in the vicinity of the University: Alpha Gamma Rho, Alpha Tau Omega, Phi Gamma Delta, Phi Mu Delta, and Tau Epsilon Phi. These houses accommodate from twenty to fifty students each.

ATHLETIC FIELDS

ALUMNI FIELD.—Alumni Field, so called because funds required for its construction were contributed by the Alumni Association, is located at the northern end of the campus. It contains a quarter-mile cinder track, with a 220-yard straight-away, and is graded and laid out for football and track and field athletics. It contains grandstands with a seating capacity of 5,000 and also bleachers seating 3,700. New additions include varsity and freshman baseball grounds, regarded as two of the best in New England and conforming to all major-league field requirements, a freshman football field, seven clay tennis courts and one hard-surface court, and a hammer field.

ATHLETIC FIELD FOR WOMEN.—A field on the southern end of the campus consists of a regulation hockey field, archery range, and a large practice area. It is well lighted by flood lights for late afternoon activities. A field house on the western border consists of a club room, a store room for athletic equipment, and kitchenette. Besides serving for instruction and rest for teams not in action, it is used for picnics, social gatherings, and as a reading room. Two new tennis courts were added to this plan during the fall of

1937, which materially relieve the increased demand for instruction and recreation in tennis.

THE UNIVERSITY FARMS

The University farms consist of approximately 645 acres divided into two farms, one of which adjoins the campus while the other is located in Stillwater. The land under cultivation amounts to 267 acres, divided as follows: 217 acres for farm crops, 10 acres for orchards, 2 acres for the forest nursery, 18 acres for poultry lots, 20 acres for systematic forestry, and 378 acres of forest and pasture lands. These farm lands, together with the campus, make the University holdings at Orono and vicinity approximately 745 acres.

THE LIBRARY

The University Library contained, at the end of the academic year, 136,785 volumes and over 33,000 pamphlets, including the following: Law Library, 5,600 volumes, available for reference at the Court House in Bangor; Agricultural Experiment Station Library, 10,119 volumes, on deposit in the library building; Maine Collection, 6,000 volumes and pamphlets, shelved in the Maine Room and provided with a special card catalog; the Clinton L. Cole Marine Library, 600 volumes, in memory of Clinton L. Cole, Maine '00. The Library receives currently about 750 periodicals, the Agricultural Experiment Station, 200.

In addition to the reference and periodical rooms, the Library provides special reading rooms for Agriculture, Education, and Technology, where are assembled the books, periodicals, indexes, and abstracts pertaining to these subjects.

The library building, the gift of Andrew Carnegie, was built in 1906. The installation, in 1937, of a new lighting system, acoustical tiled ceilings, heat control, ventilating units, and new floor coverings has resulted in greatly improved conditions for study.

Elementary instruction in the use of the library is given new students during Freshman Week. This includes lectures and practice in the use of the catalog and magazine indexes.

While the University Library is not equipped to supply books to individuals outside the University, it is glad to lend books to other libraries and to graduates of the University when it can be done without interference with local needs. Transportation charges are payable by the borrower. Individuals wishing to borrow books should first consult their local librarian, who will

forward the request, whenever necessary, to the State Library. The State Library, acting as a clearing house for book loans between libraries in the State when it cannot completely supply the material needed, may forward the request to another library.

Any book in circulation or shelved elsewhere on the campus may be recalled to the library at any time. All library books must be returned to the library before the close of the academic year in June for inventory, repair, and binding.

Library Hours

7:45 a.m.—9:30 p.m. Monday-Thursday

7:45 a.m.—9 p.m. Friday

8 a.m.—5 p.m. Saturday

2 p.m.—9:30 p.m. Sunday

THE ART COLLECTION

The place of the Fine Arts in a college curriculum in extending the range and balance of the so-called cultural studies has been recognized at Maine for many years, and the art-teaching apparatus has grown to some 7,000 reproductions covering every important school and period of western art from the earliest Egyptian down to the "modern." The collection has been built up on the theory that architecture, sculpture, and painting have their recognized places in the story of human progress, and that these forms of expression have much to convey to the students of history, letters, and present-day social problems as well as to the special student of art.

The Carnegie Corporation gift of nearly 2,300 reproductions, many of these in color, gave the collection so much impetus in 1935 that special quarters for exhibition purposes were provided in the summer of 1937. The third floor of the south wing of Stevens Hall was made over into a gallery space of two rooms, the larger hall with wall footage augmented by a dozen movable panels providing thus some 700 square feet additional hanging space. This room displays approximately 600 reproductions, presenting a sketch of western art over a period of 5,000 years. Special stress is given to the art of ancient Greece, the Gothic age, and the period of the Italian Renaissance.

Much of the instruction is given in the gallery, and students are required to use this display in meeting the requirements of the different courses. In fact, the gallery stands in about the same relation to the work of the art department that the laboratories do to the departments of science. The his-

torical and progressive point of view is kept before the eye by adequate labeling, dating, and period hanging or grouping.

A plan for loaning framed pictures to students was inaugurated in 1939. Gifts and purchase made possible a special collection of about one hundred pictures for this purpose. Any student may borrow one at a time of these, returnable at the pleasure of the student. Selections from these pictures are also free to dormitories and fraternity houses for a semester period. There are no other formalities for the loan than for drawing a book from the library.

Several exhibits have been arranged for state-wide circulation among clubs, schools, and libraries.

1. Two exhibits of fifteen framed pictures, facsimiles of masterpieces of painting.
2. A collection of mounted prints in color covering the history of painting. These are sent out in groups of twelve each.
3. A set of twenty framed photographs (21 x 27) showing notable European buildings and statuary. These are loaned in sets of two each.
4. "Elizabethan England," the Boston Museum's publication of forty-one contemporary pictures of England's grand epoch, is especially intended for the study of English literature.

Reading matter goes with each picture, to afford historical and artistic data. The time limit on these loans varies from one to four weeks. Transportation in all cases is borne by the subscriber.

The gallery is open to students and public alike on week days from 9:00 to 12:00 a.m. and from 2:00 to 5:00 p.m., and on Sundays from 2:00 to 5:00 p.m.

The cabinets and cases containing the major part of the photographic collection are accessible for students and faculty in Room 36, South Stevens.

Scientific Collections

The biological collections are located in Coburn Hall.

ZOOLOGY.—These collections consist of a working collection of bird skins; a display collection of bird mounts; a study collection of various other groups of both vertebrates and invertebrates. These are arranged in the various rooms and laboratories where they are best available for purposes of class use.

BOTANY.—These collections are situated in room 24 on the second floor. The herbarium includes several collections of considerable value, the most important of which is the one made by the late Rev. Joseph Blake and presented to the University by Mr. Jonathan G. Clark, of Bangor. It contains more than 7,000 species of both flowering and flowerless plants, and repre-

sents more especially the flora of Maine and other New England states, but includes many forms from the Western United States, Mexico, and the West Indies, and a number from many of the European and Asiatic countries, and from Africa and Australia. The late Professor F. L. Harvey left to the herbarium the general collections accumulated during his connection with the University, and his special collection of the weeds and forage plants of Maine, comprising 300 species. Other important collections are Collins's Algae of the Maine Coast, Halsted's Lichens of New England, Halsted's Weeds, Ellis and Everhart's North American Fungi, Cook's Illustrative Fungi, Underwood's Hepaticae, Cummings and Seymour's North American Lichens.

GEOLOGY.—The geological collections of minerals, rocks, and fossils are stored on the third floor in Fernald Hall. One large wallcase, containing mineralogical specimens, is located on the first floor of Winslow Hall.

UNIVERSITY PUBLICATIONS

MAINE BULLETIN.—A publication issued monthly from August to May inclusive with two issues in the month of February and three issues in the month of March, to give information to the alumni and the general public. It includes the Biennial Report, the Summer Session Bulletin, and the Annual Catalog.

UNIVERSITY OF MAINE STUDIES, SECOND SERIES.—A series of research studies by members of the faculty and graduate students, published under the direction of the Faculty of Graduate Study.

ANNUAL REPORT AND OTHER BULLETINS OF THE AGRICULTURAL EXPERIMENT STATION.—The annual report gives a brief summary of the progress during the year on the various research projects together with pertinent weather and financial data. Other bulletins present results of completed studies or certain phases of studies for which data have been obtained sufficient to warrant conclusions.

OFFICIAL INSPECTIONS bulletins contain the results of the work of inspection of agricultural seeds, commercial feeding stuffs, commercial fertilizers, drugs, foods, fungicides and insecticides.

EXTENSION BULLETINS, NEWS, AND RADIO RELEASES are issued by the Extension Service. Single copies of bulletins and circulars will be mailed to any Maine resident who makes the request. News releases are sent to all daily and weekly newspapers. Radio releases are issued each week to four coöperating broadcasting stations in Maine.

TECHNOLOGY EXPERIMENT STATION PUBLICATIONS consist of bulletins and papers giving the results of investigations and research, and are usually sent free of charge on request.

THE MAINE ALUMNUS, published nine times during the academic year by the General Alumni Association, is sent to former students of the University who subscribe through the payment of alumni dues.

Student publications are described in the section "Student Activities."

HEALTH SERVICE

The Health Department offers certain services, including medical examination, clinic, infirmaries, and isolation, to those students paying the health fee. The staff is composed of a University doctor and two nurses. Students, however, are free to consult any physician they desire but at their own expense. A clinic service, located at 20 Fernald Hall, is available daily except Sunday. There is an infirmary for men and one for women. The University Health Service cannot treat patients suffering with chronic illnesses, those requiring surgical treatment, or those in need of the services of a specialist.

PLACEMENT BUREAU

A University Placement Bureau was inaugurated in 1935 by the University in coöperation with the General Alumni Association to offer to graduates, students, and employers a central bureau for information. The Bureau is administered with a threefold purpose, namely: (1) to discover and to increase opportunities for employment of Maine students and graduates in all fields of work other than teaching; (2) to gather information about graduates for employers and about business concerns and trends for graduates and to help them make valuable contacts in their chosen fields; (3) to coöperate with the University departments in helping graduates to discover the kinds of employment for which their total qualifications fit them so as to decrease as much as possible the changes and readjustments of post-graduate employment.

No charge to students, first-year graduates, or employers is made, although a nominal fee to cover clerical costs is charged older alumni placed through the assistance of the Bureau. The duties of the Bureau also include the attempt to secure part-time work during the college year and summer employment for undergraduates. The Bureau endeavors to assist the greatest number of students and graduates possible to locate satisfactory employment, and will welcome inquiries from employers regarding its policies and services.

TEACHERS' REGISTRATION BUREAU

A registration bureau for teachers, located in the office of the Dean of the School of Education in Stevens Hall, undertakes to assist properly qualified graduates and former students in securing positions. All seniors who plan to teach are urged to register with the committee. Correspondence with officials who are looking for teachers is welcomed. No fee is charged for this service to students.

STUDENT ACTIVITIES

Cooperative Government

STUDENT SENATE.—The Student Senate comprises representatives from the following groups: (a) the several fraternities, (b) the Women's Student Government, (c) the dormitories, (d) the off-campus men. As an assembly truly representative of the student body, it is recognized by the faculty and the administration as the official organ of the student body in all matters that call for discussion and adjustment between the student body and the administration. The Senate is empowered to investigate any question relative to the student body or any member thereof and to recommend action on the same to the administration. The Senate is empowered to summon before it any student or students for trial or testimony.

WOMEN'S STUDENT GOVERNMENT ASSOCIATION.—All women registered at the University of Maine are members of this association. The purpose of the organization is to encourage among the women of the University an active sense of responsibility for self-government. It also attempts to promote the highest standards of honor and integrity in all matters of personal conduct. The association enacts whatever laws are necessary to maintain congenial relationships on the campus. The Council, composed of representatives of the several dormitories, and of the off-campus, sorority, and non-sorority women, acts as an executive committee and carries on the business of the organization.

Religious Activities

MAINE CHRISTIAN ASSOCIATION.—The Maine Christian Association, serving students of all religious faiths, has as its object the promotion of Christian fellowship, knowledge, and service. The work is done by student committees, under the guidance of a man and a woman secretary and a group

of coöperating pastors. The Association conducts religious services, discussions of practical student questions and social problems, holds retreats, sends out religious deputations to churches and schools, brings comfort to the sick, and in general seeks to meet the spiritual needs of the students. The secretaries act as representatives of several coöperating denominations. The work centers in the Maine Christian Association Building, which also serves as a union building for student activities. Its rooms for reading, rest, recreation, meals, study, and worship are open all day.

Honor Societies

There are at the University a number of honor societies designed to recognize attainment and promise in its various divisions. These elect to membership at regular intervals, according to their respective standards, those students whom they desire to honor. The tabulation below shows the scope of each society, and the date at which a chapter was established at the University.

PHI KAPPA PHI (1900).—All colleges and the School of Education.

ALPHA ZETA (1906).—Agriculture.

KAPPA DELTA PI (1932).—School of Education.

OMICRON NU (1931).—Home Economics.

PHI BETA KAPPA (1923).—College of Arts and Sciences.

TAU BETA PI (1911).—Engineering.

XI SIGMA PI (1917).—Forestry.

Professional and Departmental Organizations

Many departments or divisions of the University sponsor an organization to bring together students having a common interest. Such clubs, with the subject in which each specializes, follow.

Professional Societies

ALPHA CHI SIGMA.—Chemistry, Chemical Engineering, and Pulp and Paper Technology.

AMERICAN CHEMICAL SOCIETY.—Chemistry, Chemical Engineering, Pulp and Paper Technology.

STUDENT BRANCH OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS.

BRANCH OF THE AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS.

BRANCH OF THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS.

BRANCH OF THE AMERICAN HOME ECONOMICS ASSOCIATION.

KAPPA PHI SIGMA.—Education.

SCABBARD AND BLADE.—Military.

Departmental Clubs

AGRICULTURAL CLUB.

BIOLOGY CLUB.—Biology.

CERCLE FRANÇAIS.—French.

CIRCULO ESPAÑOL.—Spanish.

COLLEGE 4-H CLUB.—Boys' and Girls' Agricultural and Home Economics Clubs.

CONTRIBUTORS' CLUB.—Creative writing.

DEUTSCHER VEREIN.—German.

EDUCATION CLUB.

FORESTRY CLUB.

HOME ECONOMICS CLUB.

MAINE MASQUE.—Dramatics.

SIGMA DELTA ZETA.—Mathematics.

SIGMA MU SIGMA.—Psychology.

Musical Organizations

UNIVERSITY BAND.—This organization is attached to the Military Department. Rehearsals are credited as regular class work under the Military and Music Departments. A particular aim is to develop leadership, and to this end, in coördination with the course in interpretation and conducting in the Music Department, students properly qualifying are coached to conduct the concert presentations of the band. The band plays for various university functions and games and gives concerts.

UNIVERSITY CHORUS.—This organization, open to both men and women students, has for its objective the study and public performance of choral music. Participation in college assemblies, student concerts, a National Music Week oratorio concert with the Bangor Symphony Orchestra, and the annual Bangor Music Festival comprise the program. The sharing in programs at the Festival with world-famous musicians and concert artists renders this choral work inspiring and memorable. The chorus is conducted by the Professor of Music as class work, for which students receive credit. Conditions of membership are listed under the Department of Music (Courses 25, 26).

UNIVERSITY ORCHESTRA.—This organization, recruited from the outstanding student talent, devotes weekly rehearsals to the study of standard and symphonic music. Its repertoire is presented in concerts on and off the campus. It accompanies the University Chorus and soloists in the annual Christmas Vespers and Music Night programs. Credit is granted for orches-

tra participation. Conditions are listed under the Department of Music (Courses 27, 28).

Social Fraternities and Sororities

The following fraternities and sororities have chapters, the figures in parentheses giving the dates chapters were established at the University.

FRATERNITIES.—National: Beta Theta Pi, (1879); Kappa Sigma, (1886); Alpha Tau Omega, (1891); Phi Kappa Sigma, (1898); Phi Gamma Delta, (1899); Sigma Alpha Epsilon, (1901); Sigma Chi, (1902); Theta Chi, (1907); Delta Tau Delta, (1908); Lambda Chi Alpha, (1913); Sigma Nu, (1913); Phi Mu Delta, (1923); Alpha Gamma Rho, (1924); Tau Epsilon Phi, (1929). Local: Phi Eta Kappa, (1906).

SORORITIES.—National: Alpha Omicron Pi, (1908); Phi Mu, (1912); Delta Delta Delta, (1915); Pi Beta Phi, (1920); Chi Omega, (1921).

Student Publications

MAINE CAMPUS.—A newspaper published weekly during the academic year by an editorial board composed of students.

PRISM.—An illustrated annual published by the junior class.

MAINE FOREST.—A magazine published annually by the students in the Department of Forestry.

Debating Society

The Debating Society is open to all students interested in forensic work. Questions of public interest are discussed. The members make a special study of the questions used for intercollegiate debating. From this group representatives are chosen to speak before luncheon clubs, grange meetings, and community gatherings, and to participate in the intercollegiate debates.

The University of New Hampshire, Bates College, Rhode Island State College, New York University, Rutgers University, the University of Vermont, Boston University, Massachusetts State College, Bowdoin College, and Colby College are among the institutions usually scheduled for these debates, which are frequently of a dual nature. Members of this society are selected to represent the University on a debating tour of eastern institutions.

The Women's Forum

The Women's Forum is an organization open to all women students of the University and offers an opportunity to meet informally with members

of the faculty and other guest speakers and discuss controversial subjects. The group meets informally for tea and discussion twice a month. The Forum is sponsored by the Debate Club.

CHURCH SERVICES

Students receive a cordial welcome at the services of the churches of Orono—the Methodist Church, St. John's Universalist Church, St. Mary's Roman Catholic Church, and the undenominational Fellowship Church. Other denominations are represented at Old Town and Bangor.

ADMISSION

ADMISSION TO THE FRESHMAN CLASS

General Requirements

Candidates for admission to the freshman class should apply to the Director of Admissions for an application card and other necessary blanks. These blanks should be returned promptly together with the application fee of \$10 (and room deposit of \$15 if a dormitory room is desired). *It is advisable to file application as early as **March first** to facilitate admission and room assignment for entrance the following September.*

Candidates must present satisfactory certificates of fitness, or pass the required examinations, and on registration day make a cash deposit covering the bills of one semester. The University admits men and women, both residents of Maine and non-residents; it reserves the right to terminate admission whenever the capacity of the University to care properly for the students has been reached.

It is requested that all entering students submit a certificate from a physician stating that they have been vaccinated for smallpox within the past seven years. If the applicant has not been vaccinated within this period, it is recommended that he or she be vaccinated *early in the summer* in order to be well over the effects of the inoculation, if any, before the opening of college.

Admission from Schools in Maine

Graduates of Maine high schools or academies may be admitted on their school records provided they have completed, with recommending grades, a course of study including all the subjects needed for admission to the curriculum that they wish to follow (see page 3) and are fully recommended by their principal.

The University is interested in candidates whose character, scholastic attainments, aptitudes, interests, industry, and habits of study give definite promise of success in college work. If a candidate has a poor record during his last year or shows weakness in any subject vital to the curriculum he wishes to take in college, he may be refused admission. In general, greater weight will be given to the character of the candidate's work in the latter part of his course than to his earlier record.

Final decision regarding each candidate will be made by the University.

In reaching such decision both the candidate's school record and the additional information called for below will be considered:

A. From the student. The candidate is required to submit a carefully answered questionnaire concerning favorite studies, school activities, community interests, hobbies, choice of college course, choice of a life work, and other matters bearing upon preparation for a college course. So far as possible, a personal interview will be arranged with each candidate. This information is required so that the University may better guide the students in selecting courses of study best suited to their individual abilities, aptitudes, and interests.

B. From the principal and others. The principal, teachers, and adult acquaintances, known to the applicant, are asked to give confidential information regarding character, personality, school and community activities, and intellectual capacity and ability to successfully pursue a college course.

Candidates from Maine schools may also gain admission by supplementing their school records with satisfactory grades through specified entrance examinations.

Admission from Schools Outside of Maine

Candidates from secondary schools outside of Maine may be admitted on certificate of the principal, provided the school is accredited by its state university or the recognized accrediting agency of the state or region in which the school is located, or by entrance examinations of the University of Maine. Certificates issued by the regents of the University of the State of New York are accepted for any of the subjects in which admission credit is allowed, provided they have been passed with satisfactory grade. Supplementary information is also required as stated in paragraph "B" under "Admission from Schools in Maine."

Admission by Examinations

Entrance examinations are held at Orono before the fall registration of freshmen. A schedule of the examinations will be furnished on request. Candidates for admission who wish to be examined in the spring can take the examinations at their own school, provided the principal is willing to arrange for giving the tests. These examinations are given during the fourth week in May. On request of any principal the University will send the necessary examination papers. Such requests should be received before May 11.

The examinations given by the College Entrance Examination Board will be accepted by the University. These examinations will be held June

15-22. All applications for these examinations must be addressed to the Secretary of the College Entrance Examination Board, 431 West 117th Street, New York, N. Y., and must be made upon a blank form to be obtained from the Secretary of the Board upon application. Application must be made before May 27 and must be accompanied by the examination fee of \$10.00.

Information on Freshman Week

About August 12 parents of each candidate admitted will receive from the Registrar's office a letter giving detailed instruction about arrangements for Freshman Week. Parents of candidates admitted after August 12 will receive the information at the time the candidate is admitted to the University.

Reports to Parents

The record of every freshman will be carefully reviewed at the end of eight weeks and again at the close of the first half-year's work. Reports are sent to parents at each of these dates.

Subject Requirements

Requirements for the individual colleges are as follows:

COLLEGE OF ARTS AND SCIENCES

English	3	units
Foreign language (three years in one or two in each of two)	3 or 4	"
History	1	unit
Mathematics (Algebra and Plane Geometry)	2	units
Electives	6 or 5	"
		<hr/>
Total	15	units

COLLEGE OF AGRICULTURE (Including Forestry and Home Economics)

English	3	units
†*Algebra	1	unit
*Plane Geometry	1	"
Science	1	"
History	1	"
Electives	8	units
		<hr/>
Total	15	units

COLLEGE OF TECHNOLOGY

English	3	units
Foreign language (two years in one)	2	"
Algebra	2	"
Plane Geometry	1	unit
History	1	"
Science	1	"
Electives	5	units
<hr/>		
Total	15	units

Elective Units

The electives may be selected as shown in the following table. Subjects not listed may be accepted among the electives, provided they represent a satisfactory equivalent for any of those named. In general, it is advisable that the electives be taken from the fields of language, mathematics, natural science, and social science.

* For admission to the Home Economics curriculum, two units in mathematics acceptable to the Committee on Admissions are required.

† For admission to the Agricultural Engineering, Bacteriology and Forestry curricula two units of algebra are required.

SUBJECTS	Units Accepted		Units required and units accepted in the several colleges					
			Arts and Sciences		Agriculture		Technology	
	Min.	Max.	Req.	Acc.	Req.	Acc.	Req.	Acc.
English	3	3	3	3	3	3	3	3
French	*2	4	Three units in one language or two in each of two	2, 3, or 4		1, 2, 3, or 4	Two units in one language††	1, 2, 3, or 4
German	2	4		2, 3, or 4		1, 2, 3, or 4		1, 2, 3, or 4
Greek	2	3		2 or 3		1, 2, or 3		1, 2, or 3
Latin	2	4		2, 3, or 4		1, 2, 3, or 4		1, 2, 3, or 4
Spanish	2	3		2 or 3		1, 2, or 3		1, 2, or 3
Algebra (Elem.)	1	**2	1	2	§1	2	2	2
Plane geometry	1	1	1	1	§1	1	1	1
Solid geometry	½	½		½		½		½
Trigonometry	½	½		½		½		½
General Math.	½	1		½ or 1		½ or 1		½ or 1
History	1	4	1	1, 2, 3 or 4	1	1, 2, 3 or 4	1	1, 2, 3, or 4
Civics	½	1		½ or 1		½ or 1		½ or 1
Economics	½	1		½ or 1		½ or 1		½ or 1
Prob. of Democracy	½	1		½ or 1		½ or 1		½ or 1
Biology	†1	1		1	One unit in Science	1	One unit in Science	1
Botany	†1	1		1		1		1
Chemistry	†1	2		1 or 2		1 or 2		1 or 2
Physics	†1	2		1 or 2		1 or 2		1 or 2
Physiography	½	1		½ or 1		½ or 1		½ or 1
Physiology	½	1		½ or 1		½ or 1		½ or 1
Zoology	†1	1		1		1		1
General Science	½	1		½ or 1		½ or 1		½ or 1
Agriculture	1	4		Not over two units in all of these		Not over five units in all of these		Not over four units in all of these
Domestic Science and Art	1	4						
Drawing	†½	2						
Manual Training	†½	2						
Typewriting	†½	1						
Commercial Subjects	½	4						
Music	½	2		½ or 2		½ or 2		½ or 2
Bible Study	½	1		½ or 1		½ or 1		½ or 1
Debating	½	1		½ or 1		½ or 1		½ or 1

*The minimum accepted in foreign languages applies to the College of Arts and Sciences only.

**Two units credit for elementary algebra completed. Technology candidates are expected to take some mathematics during their last year in school.

†The work in these subjects must include laboratory work with notebook, as specified in the detailed statement.

‡Credit for these subjects is at the rate of one-half unit for a subject taken five forty-five minute periods per week for a year.

§See both footnotes at bottom of page 62.

††Latin or French preferred.

Requirements in Detail

ENGLISH

The course in Freshman English presupposes a study of English literature and of composition and rhetoric pursued throughout the preparatory school course. Candidates are expected to have had practice in writing equivalent to at least one composition a week during each of the four years in high school, and to have studied the elements of rhetoric in some such text as, for example, Tanner's *Rhetoric and Composition*. Experience shows that students who have had insufficient practice in writing in school are apt to have trouble in their college English.

The entrance examination is of an objective nature and is designed to test such matters as grammatical structure, spelling, capitalization, vocabulary, and literature.

FOREIGN LANGUAGES

Latin.—I. *Amount and range of the reading recommended.* There are no prescribed readings in Latin, but the following recommendations are made:

1. In the second year the pupil should read easy Latin of gradually increasing difficulty. This may consist in part of "made" or adapted Latin. Not less than one semester of this year should be devoted to the reading of selections from Caesar. The reading for the year may also include easy selections from such authors as Aulus Gellius, Eutropius, Nepos, Phaedrus, Quintus Curtius Rufus, and Valerius Maximus.

2. If three years of Latin are taken, one semester should be devoted to the reading of selections from Cicero, and one semester to selections from Vergil.

3. If four years of Latin are taken, not less than one semester each should be devoted to Cicero and Vergil and the remaining time can be given to such authors as Sallust, Livy, and Ovid.

II. *Latin Word List.* The College Entrance Examination Board has prepared a Word List which indicates the vocabulary that students are ex-

pected to have at the end of two, three, and four years of study. Students will be expected to know accurately the words in this list.

French.—I. *Elementary.*—Students who desire to receive credit for two units of high-school French should be able to pronounce French accurately, to read at sight easy French prose, to put into French simple English sentences taken from the language of everyday life or based upon a portion of the French text read, and to answer questions on the fundamentals of French grammar.

II. *Intermediate.*—Those who desire credit for three units should be able to read modern prose and verse of moderate difficulty and to write a short composition upon subjects within the range of everyday experience. Such students should also have a thorough knowledge of French grammar as presented by the Fraser and Squair and other textbooks of the same type, including a thorough study of the uses of the conditionals and subjunctives, and in general of such material as may have been in the work of the first two years.

The examination of the College Entrance Certificate Board in Elementary French will be accepted for two units, and that in Intermediate French for one additional unit.

German.—*Elementary.*—The first year's work should comprise: careful drill upon pronunciation and oral work; the rudiments of grammar including the inflection of nouns, pronouns, and adjectives; the conjugation of the more common weak and strong verbs; the use of the more common prepositions; the conjugation and meanings of the modal auxiliaries; the elementary rules of syntax and word order; dictation and elementary composition; the reading of 75 to 100 pages of prose and poetry.

The second year's work should include the continued study of the grammar and composition, and the reading of 150 to 200 pages of literature.

The advanced German should include constant practice in conversation and composition, and the reading of about 400 pages of moderately difficult prose and poetry.

Spanish.—*Elementary.*—The equivalent of Course 1, 2 offered by the University. The first year's work is expected to familiarize the student with the fundamental principles of grammar, special stress being laid on the study of verbs and pronouns. Dictation, the translation of simple Spanish when spoken, and some translation into Spanish to illustrate principles of grammar will be employed. About 150 pages of modern prose will be read. In the second year in addition to the continued study of the grammar and the use of suitable exercises similar to those employed in the preceding year there should be read from 300 to 400 pages belonging to modern Spanish literature.

HISTORY

One unit is required by all colleges of the University for entrance. Four may be offered.

The student will be expected to show judgment as well as memory and be able to make comparisons and give summaries. Some knowledge of geography is required, and collateral reading is essential.

I. *Greek and Roman History*.—One unit.

Greek History.—To the death of Alexander with due consideration of Greek life, literature, and art. One-half unit.

Roman History.—To 800 A.D. with emphasis on government and institutions. One-half unit.

II. *English History*.—A general knowledge of the political and social development of England; in particular the growth of the limited monarchy with parliamentary government and the British Empire and Commonwealth. One unit.

III. *American History*.—Emphasizing political, social, and economic aspects. One unit.

IV. *Medieval and Modern History*.—One unit.

Medieval History.—To 1500. One-half unit.

Modern European History.—From 1500 to the present. One-half unit.

V. *World History*.—Beginning with ancient civilization and coming down to the present time. One unit.

MATHEMATICS

Algebra.—As algebra is a necessary foundation for successful work in advanced mathematics, all candidates expecting to continue mathematics in college should have a thorough knowledge of elementary algebra. They should offer two units.

Algebra to Quadratics.—One unit. The usual first-year course should give facility in factoring, simplification of fractions, solution of simple equations in one and two unknowns, use of graphs, exponents and radicals, ratio and proportion.

Quadratics and Beyond.—One unit. Quadratic equations, systems of equations in which at least one is of a degree above the first, progressions, exponents and radicals, binomial theorem with integral exponents, logarithms.

Trigonometry.—One-half unit. A half-year course using any standard textbook which covers the definitions of the functions, the proofs of the standard formulas, proofs of identities, the solution of right and oblique triangles by natural functions and by logarithms. Other simple applications of trigonometry.

Plane Geometry.—The usual theorems and constructions which treat the general properties of plane rectilinear figures, the circle and the measurements of angles, similar polygons, areas, regular polygons, and the measurement of the circle.

Solid Geometry.—The usual theorems and constructions which treat the relations of planes and lines in space; the properties and measurement of prisms, pyramids, cylinders, and cones; the sphere and the spherical triangle.

Advanced Algebra.—Permutations and combinations with applications of the theory limited to simple cases; complex numbers with graphical representation of them and of their sums and differences; determinants, chiefly of the second, third, and fourth orders; methods of evaluating such determinants including the method involving the use of minors; the application of determinants to the solution of systems of equations of the first degree; so much of the theory of equations including graphical methods, Descartes' rule of signs and Horner's method, as is necessary for the solution of equations of higher degree with numerical coefficients; solutions of the general cubic and biquadratic equations.

SCIENCES

Biology.—This may consist of a continuous course for one year dealing with the problems of general biology, including the study of the structure, functions, and habits of both plants and animals; a course for one year in botany alone; a course for one year in zoology alone; or a course for one-half year in human physiology. The human physiology may be arranged to form a part of the general biology, or of the zoology; but in such cases it must be treated as an integral part of the subject under consideration.

The requirements in botany and zoology are the same as those of the College Entrance Examination Board, and are outlined in the syllabus of the Board. The notebook should include properly labeled drawings, and descriptions of experiments, representing as much of the work in this syllabus as may be practicable, and should be the record of a year's laboratory work in the subject. The making of an herbarium is optional.

Chemistry.—Preparation in chemistry should embody a reasonable grasp of the basic principles of the science, which can be secured by a continuous course of one year dealing with the common metallic and non-metallic elements in terms of fundamental chemical laws; familiarity with laboratory technique; and a permanent record of laboratory work in clear, concise English. A good elementary textbook and laboratory manual will furnish the basis for this preparation.

Physics.—The requirement in entrance Physics is met by a one-year

course in an approved secondary school covering the fundamental topics in mechanics, heat, sound, electricity, magnetism, and light. The course should include laboratory, amounting to approximately one period a week, and the notebook should be certified by the instructor in charge.

ADMISSION OF SPECIAL AND SHORT COURSE STUDENTS

Special Students.—In exceptional cases a person may be classified as a special student. Such a student is not a candidate for a degree but will be registered by the dean or deans concerned.

Two-Year Course in Agriculture.—Candidates for admission to the Two-Year Course in Agriculture must have satisfactorily completed two years of high-school work.

ADMISSION BY TRANSFER

A student desiring to transfer to the University of Maine from another college of recognized standing must present the following credentials:

A statement of his entrance record.

A statement showing a complete record of his work while in attendance including faculty action, if any.

A letter of honorable dismissal.

These credentials must be sent directly from the Registrar's office and should be addressed to Director of Admissions, University of Maine.

Applicants should notify the Director of Admissions whether they desire admission to the College of Agriculture, the College of Arts and Sciences, the School of Education, or the College of Technology. A college catalog should be mailed unless the Registrar knows that the University of Maine is on the permanent mailing list. Applications from both men and women must be filed not later than August first.

REGISTRATION

Freshmen.—All members of the incoming freshman class are REQUIRED to be in residence on the campus during the period known as Freshman Week. The dates are announced in the calendar in the front of the catalog. Following the general plan employed since its establishment, it will be devoted to tests of various sorts whereby the University authorities may obtain more accurate information concerning the type and degree of mental qualifications of the new students, and to lectures and demonstrations

by which the students may be more intelligently informed of the University and its customs.

No excuses for non-attendance other than illness certified to by a physician in good standing will be accepted.

Upperclassmen.—In the fall semester of 1940, upperclassmen will be required to register on September 17, or to present written evidence that they have been excused from so registering by the University authorities. In other words, upperclassmen must before September 17 have communicated with the dean of their college giving him their reasons for desiring to register late, and have received from him written authorization so to do. In the event of an unusual circumstance wholly beyond the control of the student, and occurring just prior to the opening of the fall semester, the student may present his case in person to the dean upon his arrival at the University.* Late registration is a handicap both to students and to University authorities, and will be rigidly discouraged whenever and wherever possible.

STUDENT EXPENSES

A partial list of necessary expenses is indicated below. It includes only items which are fairly uniform for all students. The estimates are prepared upon the basis of students living in University halls. The charge for board and room in the coöperative dormitory is somewhat less than indicated below.

	Students from within the State	Students from without the State
Tuition	\$150.00	\$250.00
Textbooks	25.00 to 50.00	25.00 to 50.00
Board and Room	323.00	323.00
Special Assessment for Athletics & Debating	10.50	10.50
Health Service Fee	4.00	4.00
	\$512.50 to \$537.50	\$612.50 to \$637.50

The tuition for students taking the Two-Year Course in Agriculture is \$70.00 a year. Such students do not pay the special assessment for athletics and debating.

Civil Engineering Summer Camp tuition for University of Maine students is \$15.00. All other students are charged regular Summer Session tuition.

Application for Admission

A fee of \$10.00 is required at the time of application. Checks should be made payable to the University of Maine. This fee is refunded if the applicant is not admitted. When the applicant enters the University, the fee will be applied toward payment of the first semester's tuition.

Application for Room

A deposit of \$15.00 is required at the time application is made for a room. If a student is unable to enter, the deposit will be refunded, provided the room is given up on or before August 1. If notice of withdrawal is given on or before September 1, \$10.00 will be refunded. In case of withdrawal after September 1, the entire deposit is forfeited, but may be applied toward the payment for a room if the applicant enrolls in the University the following year.

When a student enters the University the deposit of \$15.00 will be applied toward payment of dormitory charges.

Special Charges

A fee of \$2.00 is charged a student for each special examination.

Students registering after the prescribed day of registration for the fall or spring semester shall pay an additional fee of \$2.00.

Rooms

The rooms in Balentine Hall and the new dormitory, accommodating one and two students each, and those in Colvin Hall, accommodating two and four students each, are available to women students. The rooms in the Elms, the coöperative dormitory for women, accommodate two and three students each. Selection for the coöperative dormitory is based on financial need, coöperation, and satisfactory scholarship.

The rooms in Oak Hall and the middle section of Hannibal Hamlin Hall accommodate two students each; the north and south sections of Hannibal Hamlin Hall accommodate four students each. Oak Hall, Hannibal Hamlin Hall, and North Hall are freshman dormitories for men.

The rooms in the dormitories are furnished with beds, mattresses, chiffoniers, desks, and chairs. Each resident in the dormitory has bed linen and three towels laundered each week without extra charge. Students furnish pillows, bed linen, and blankets.

Women students not living at home are required to live in one of the women's dormitories. In exceptional cases women students are allowed to live at some boarding house approved by the Dean of Women.

Applications for dormitory rooms should be addressed to the Registrar.

Gymnasium Uniform for Women

Every woman will be expected to purchase a prescribed uniform before coming to college. Information regarding uniform and place where it can be bought will be sent with admission cards. The approximate cost of the uniform is \$15.00.

All women students who are using locker rooms and shower baths will be assessed fifty cents each semester for the use of towels.

Deposits to Cover Expenses

The University *requires all students to pay in advance*. The payments indicated below are required at the beginning of each semester.

Deposit	Residents of Maine	Non-Residents of Maine
Tuition	\$ 75.00	\$125.00
Board and Room	161.50	161.50
Key Deposit (men only)	5.00	5.00
Military Deposit (required of all men taking military instruction)	30.00	30.00
Special Assessment for Athletics and Debating	5.25	5.25
Health Service Fee	2.00	2.00
Freshman Week (Freshmen only)	8.00	8.00
	<hr/> \$286.75	<hr/> \$336.75

For students who do not room and board in University halls, the above amounts are reduced by \$166.50.

All men taking military are required to make a deposit of \$30.00 to cover cost of equipment. This deposit is returned at the end of the year, less a charge for goods furnished, plus a charge for lost and misused equipment.

For students in the Two-Year Course in Agriculture, the deposit required for tuition is \$35.00.

Diploma Fee

All students receiving a degree are required to pay a diploma fee of \$5.00.

Communications

Communications with reference to financial affairs of students should be addressed to the Treasurer of the University of Maine.

LOAN FUNDS

Application for loans should first be made to the Dean of Women by women students and the Dean of Men by men students. Where requirements make necessary a different handling of loans, either of these officials will refer the request to the proper person.

KITTREDGE FUND.—This fund, amounting to over \$2350, was established by Nehemiah Kittredge, of Bangor. It is in the control of the President and the Treasurer of the University, by whom it is loaned to needy students in the three upper classes. Individual loans are limited to \$50.

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS LOAN FUND.—This fund, now amounting to over \$185, was established by the University of Maine Branch in 1918 for the purpose of assisting needy students majoring in electrical engineering.

BOSTON ALUMNAE FUND.—This is a fund now amounting to over \$600, available for women of high scholastic standing who have completed at least two years of college work. Loans shall in no case exceed \$200.

MAINE CAMPUS FUND.—This fund, the gift of the *Maine Campus*, amounting to over \$460, is loaned to juniors and seniors whose conduct and scholarship are satisfactory, preference being given to those interested in the literary activities of the University. Amount loaned is limited to \$50 per person. Loans must have the endorsement of a satisfactory second party.

CLASS OF 1926 LOAN FUND FOR SENIORS.—This fund, the gift of the Class of 1926, amounting to over \$1260, is loaned to seniors of good scholastic standing during the last semester of their senior year. Amount loaned is \$50 per person, exceptional cases to be allowed \$100.

CARLETON ORCHARD FUND.—This fund originated in the gift to the State of Maine by James A. Gregory of one interest-bearing first mortgage bond for \$1000, the interest on which was to be used for the promotion of scientific orcharding in Maine. At first administered by the Maine Department of Agriculture, the income from this bond was transferred in 1925 to the College of Agriculture of the University "for the assistance of needy stu-

dents who shall be residents of the State of Maine, majoring in horticulture at the said college of agriculture."

MARY S. SNOW MEMORIAL FUND.—Students and friends of Mary S. Snow, one-time superintendent of schools in Bangor, and later a leader in home economics education, have established as a tribute to her memory a loan fund to be used in helping earnest and deserving young women secure a home economics education at the University of Maine. The fund at present amounts to over \$4380. Loans may be granted to young women of such character and scholarship as give promise that the education thus made possible will be of genuine value to the students and to society.

WOMEN'S LOAN FUND.—This fund was inaugurated by the American Association of University Women, University of Maine Branch, in 1925. It provides for loans to undergraduate women of the University who have successfully completed one or more years of university work, and have been found by the University to be thoroughly satisfactory in regard to character, scholarship, and general ability, and to be in genuine need. The fund amounts at present to \$2300; and loans to one student shall not exceed \$200 a year.

DRUMMOND FUND.—This fund of \$1000 was established in memory of Frank Hayden Drummond, of Bangor, by his widow and children. It is loaned to needy students of good character who have attained an average of "C" or its equivalent.

AMERICAN PULP AND PAPER MILL SUPERINTENDENTS' ASSOCIATION FUND.—This fund amounts to \$2500. The income is to be used to improve instruction and aid investigations in pulp and paper chemistry and technology, to develop coöperation between pulp and paper mill superintendents and young technical graduates, or to be loaned to meritorious students pursuing the pulp and paper course. A report is to be made annually to the Association.

GENERAL LOAN FUND.—This fund, now amounting to over \$3070, was donated by unknown friends, students, and faculty of the University. The first donation was made in May, 1930, and has been increased at various periods since that time.

THE BANGOR BUSINESS AND PROFESSIONAL WOMEN'S LOAN FUND.—This fund, now amounting to over \$1130, was established by the Business and Professional Women's Club of Bangor, Maine, for needy and deserving women students, preferably from Bangor and vicinity, who have been in attendance at least two years and who have maintained an average grade of "C" or better. Loans shall not exceed \$250 per student.

KAPPA PSI LOAN FUND.—This fund, amounting to over \$230, was donated by the Kappa Psi Sorority during the spring of 1933, to be used for the benefit of women students.

ESTHER AYRES CHAPTER, DAUGHTERS OF AMERICAN REVOLUTION LOAN FUND.—This fund, amounting to over \$210, is a gift of the Orono Chapter of the D.A.R. and is to be loaned to women students who are juniors or seniors.

CHARLES H. PAYSON LOAN FUND.—This fund, amounting to over \$5810, was given by Mrs. Charles H. Payson, of Portland, Maine, in memory of her late husband. It is to be loaned to needy students under such conditions as may be established by the University administration.

THE BERTHA JOY THOMPSON LOAN FUND, amounting to \$10,000, was bequeathed, in trust, to the University of Maine by the late Mrs. Bertha Joy Thompson, of Ellsworth, Maine. The net income from the fund is to be used as a "Loan Fund" to be loaned to worthy, deserving, and needy students of the University of Maine under such terms and conditions as the Board of Trustees may determine.

DELTA CHI ALPHA LOAN FUND.—This fund, the gift of Delta Chi Alpha Fraternity, amounting to over \$690, is available for loan to a male member of the senior class whose average college grade has been equivalent to "C" or better. The amount loaned each year is limited to \$50.

AMERICAN AGRICULTURIST FOUNDATION LOAN FUND.—This fund was inaugurated by the American Agriculturist Foundation, Inc., to enable deserving junior and senior students in Agriculture and Home Economics to complete their education. The fund is administered by a loan committee, of which the Dean of the College of Agriculture is chairman.

CLASS OF 1914 LOAN FUND.—This fund, the gift of the Class of 1914 amounting to over \$720, is available for loans to needy upperclass students.

SCHOLARSHIPS AND PRIZES

Forms for making application for scholarships may be obtained from the chairman of the Faculty Committee on Scholarships, or from the Registrar's Office, and should be returned to the Chairman before March 1. Candidates may, if they wish, apply for particular scholarships. No student whose record is unsatisfactory will be considered eligible for any scholarship award. Unless otherwise indicated, all awards are made by the Committee on Scholarships, subject to the approval of the President.

Scholarships available for graduate students are described in the section of the Catalog dealing with graduate study.

THE MERRITT CALDWELL FERNALD SCHOLARSHIP. \$150, established by the Trustees in 1923 and named in honor of the first acting president of the University, is awarded to the junior student having the highest scholarship rank in the University.

THE JAMES STACY STEVENS SCHOLARSHIP, \$150, established by the Trustees and named in honor of the first Dean of the College of Arts and Sciences, is awarded to the highest ranking student, resident of Maine, in the junior class in that college, the winner of the Fernald Scholarship being excepted.

THE HAROLD SHERBURNE BOARDMAN SCHOLARSHIP, \$150, in Technology, in honor of the first Dean of the College of Technology and the President of the University from 1926 to 1934, is awarded on the same terms as the foregoing.

THE LEON STEPHEN MERRILL SCHOLARSHIP, \$150, in Agriculture, in honor of the Dean of the College of Agriculture from 1911 to 1933, is awarded as are the foregoing.

THE CHARLES DAVIDSON SCHOLARSHIP, \$150, in the School of Education, in honor of the first professor of education in the University, is awarded as are the foregoing.

THE UNIVERSITY SCHOLARSHIPS, fifteen, of \$150 each, established by the Trustees in 1935, are awarded annually to students of high scholastic standing and intellectual promise whose general record is also satisfactory and who are in need of financial assistance. Preference is given to students residing in the State of Maine.

THE SECONDARY SCHOOL CONTEST SCHOLARSHIPS, eight, of \$150 each, established by the Trustees in 1931, are awarded annually to the eight entering freshmen who as secondary-school seniors have made the highest average rank in the State Senior Scholarship Contest sponsored by the School of Education, except that only one award may be given to any school. The highest ranking student of the eight selected is awarded a tuition scholarship for four years, the second highest for three years, the third for two years, and the five next in order for one year each. Each scholarship is awarded for one semester and will be continued in the second semester upon evidence of satisfactory work in the University. Only students whose schools enter the Contest and compete according to the rules furnished every year by the University may take the tests.

THE HOVEY MEMORIAL SCHOLARSHIPS, made available by a fund of \$5900, established in 1932 by the Stone and Webster Corporation in honor of the late Francis J. Hovey, are awarded to students in the College of Technology, on the basis of scholastic attainment, character, and general promise. A scholastic standing of at least 3.00 must be attained to be eligible, and must be maintained during tenure. Award is made by the Dean and the heads of departments in the College, subject to the approval of the President, with preference given to students residing in the State of Maine.

THE CHARLES H. HOOD FUND SCHOLARSHIPS, seven, of \$200 each, are available annually to men and women students of the College of Agriculture

whose intention is to promote farming as a life opportunity. They are awarded by a committee comprising the Dean of the College of Agriculture as chairman, the head of the Department of Animal Industry, and the Treasurer of the University, and are distributed as follows: Two sophomore and two junior scholarships are granted to students whose scholastic standing for the previous year places them in the upper half of their class; and three senior scholarships are granted to students whose scholastic standing for the previous year places them in the upper third of the class. The junior and senior scholarships are further restricted to students specializing in some phase of dairy industry promotion.

THE W. H. BOWKER SCHOLARSHIPS.—The American Agricultural Chemical Company has established two scholarships in honor of W. H. Bowker, one of the first technically trained agricultural college graduates to utilize agricultural research in the manufacture of commercial fertilizers. These scholarships provide \$300 each to pay two years' tuition in the College of Agriculture. One scholarship is to be awarded to some boy now studying vocational agriculture in any high school or academy in Aroostook County, or in Patten Academy, Penobscot County. The second scholarship is to be awarded to some boy now studying vocational agriculture in any high school or academy in the State. Each scholarship is to be awarded by a committee comprising the Dean of the College of Agriculture, the Professor of Agricultural Education, and the teachers of vocational agriculture in the section involved.

THE MAINE NORMAL SCHOOL SCHOLARSHIPS, three, of \$150 each, are awarded on a competitive basis to Maine normal-school students who, after two years of training for elementary teaching, desire to transfer to preparation at the University for secondary-school teaching. Only those are eligible whose normal-school record places them in the highest decile of their class, whose principal recommends them as having personal qualities which indicate probable success in high-school teaching, and who enter the School of Education as juniors, *for two years* of preparation for that field.

THE GENERAL ALUMNI ASSOCIATION SCHOLARSHIP, \$150, established by the Association in 1935, is awarded to a senior student who is son or daughter of a graduate or former student of the University, whose conduct and scholastic record are satisfactory, who has been prominent in extracurricular activities, and who needs and merits financial aid. The award is made at the close of the junior year by a committee comprising the Chairman of the Committee on Scholarships and two alumni selected by the President of the General Alumni Association.

THE WILLIAM EMERY PARKER SCHOLARSHIP, the income from a one-thousand dollar bond donated by the late Hosea B. Buck, of the Class of 1893,

in memory of William Emery Parker, of the Class of 1912, is awarded annually to that male student of the sophomore or junior class who, in addition to being above the average rank scholastically, shows most clearly those qualities of manliness, honesty, and constructive effort which characterized the college career of the alumnus in whose memory the scholarship is given.

THE CHARLES H. PAYSON SCHOLARSHIPS, \$100 each, were established in 1935 through a gift of \$20,000 made by Mrs. Charles H. Payson, of Portland, in memory of her late husband. These are awarded to students in the University whose homes are in Maine and whose high character, qualities of leadership, creditable academic record, and financial need make them worthy of scholarship aid, or to entering students of outstanding merit who without financial assistance could not attend the University.

THE BERTHA JOY THOMPSON SCHOLARSHIPS, \$100 each, established in 1935 through a bequest of \$15,000 by the late Mrs. Bertha Joy Thompson, of Ellsworth, are awarded to students whose qualities of character, scholarship, initiative, and need make them worthy of financial assistance.

THE PHILIP R. HATHORNE SCHOLARSHIP was established in 1936 through a bequest of \$5000 by the late David Ernest Hathorne, of Woolwich, Maine, and an additional gift of \$2000 by Mrs. Carrie E. Hathorne, as a memorial to their son, Philip R. Hathorne, of the Class of 1923. The income is to be used to help needy students in the Civil Engineering curriculum, preference to be given to natives of Maine.

THE JAMES NORRIS HART SCHOLARSHIPS, the income of a fund established in 1937 by alumni, faculty, and friends, in honor of Dean Emeritus James Norris Hart, are awarded annually to entering students or upper-classmen who have made satisfactory scholastic records, who have been leaders in extracurricular activities, and who merit and need financial aid.

THE HOSEA B. BUCK MEMORIAL SCHOLARSHIPS, the income from a fund of over \$3000 raised through the University of Maine Foundation, of which Mr. Buck was a charter member, were established in 1938 by friends and alumni of the University, in memory of Hosea B. Buck, of the Class of 1893. One or more scholarships are awarded annually to students whose high character, qualities of leadership, creditable academic record, and financial need make them worthy of scholarship aid.

THE CHARLES F. WOODMAN FUND, amounting to over \$15,000, was established in 1939 through a bequest by the late Charles F. Woodman, of Auburn, Maine. The net income is to be used annually under the direction of the President and Trustees of the University for the assistance of deserving and needy students, "especially poor boys who are desirous and willing to work and earn an education."

THE WOMEN'S STUDENT GOVERNMENT ASSOCIATION SCHOLARSHIP, \$50, is awarded annually by the Women's Student Government Association to a deserving woman student who is in need of financial assistance and whose conduct and scholarship record are satisfactory. Applications must be submitted to the president of the Student Council by March 1. Award is made by the Committee on Scholarships on recommendation of the Dean of Women and the Student Council.

THE NEW YORK ALUMNI ASSOCIATION SCHOLARSHIPS, two, of \$50 each, are annually offered by the New York Alumni Association for the encouragement of proficiency in written and oral expression.

SCHOLARSHIP No. 1, established in 1905, is offered for excellence in debating by the faculty Committee on Scholarships, on recommendation of the Department of Public Speaking. In case the effort in debating does not justify the award in any year or years, the amount shall be accumulative.

SCHOLARSHIP No. 2 is offered annually to an upperclassman in the College of Technology to encourage advancement and proficiency in English as equipment for later professional and civil life. The award, made by a committee of judges selected by the College of Technology and the Department of English, is based chiefly upon a competition in writing held in April, open to juniors and seniors who have satisfactorily completed Freshman English and a further elective course in English Literature, and have taken or are taking English 5 (6). Consideration is also given to the showing and advancement indicated by the student's grades in his courses in English.

THE KIDDER SCHOLARSHIP, \$30, endowed in 1890 by Frank E. Kidder, Ph.D., of Denver, Colorado, a graduate of the University in the Class of 1879, is awarded by the Committee on Scholarships, with the approval of the President, to a student whose rank excels in his junior year.

THE CHICAGO ALUMNI ASSOCIATION SCHOLARSHIP, \$50, established in 1903, is awarded annually to a sophomore pursuing a regular curriculum whose deportment is satisfactory and who has attained the highest rank in his class during the freshman year.

THE WESTERN PENNSYLVANIA ALUMNI ASSOCIATION SCHOLARSHIP, \$30, established in 1905, is awarded annually to a member of the junior class in the College of Technology whose ability and needs justify the award. The selection is made by the President and the Dean and professors of the College of Technology.

THE JOSEPH RIDER FARRINGTON SCHOLARSHIP, the income from a one-thousand dollar bond, a gift of Arthur M., Edward H., Oliver C., Horace P., and Wallace R. Farrington, all graduates of the University of Maine and sons

of Mr. and Mrs. Joseph Rider Farrington, is offered annually in honor of their parents, in the following order of preference: (a) Any direct descendant of Joseph Rider and Ellen Holyoke Farrington, or anyone whom three of such descendants may select; (b) Any student bearing the surname of Farrington or Holyoke; (c) A high-ranking student in the College of Agriculture of good character and personality who, in the judgment of the Faculty Committee on Scholarships, is most deserving of the award.

THE STANLEY PLUMMER SCHOLARSHIP, the income from one thousand dollars, the bequest of Colonel Stanley Plummer, of Dexter, Maine, is awarded annually to a needy and deserving student selected by the Committee on Scholarships. Students born in Dexter, Maine, shall have preference.

THE PENOBSCOT COUNTY ALUMNI ASSOCIATION SCHOLARSHIPS, two, of \$50 each, first given in 1920, are awarded by the President, the executive secretary of the General Alumni Association, and the Committee on Scholarships to two male students whose homes are in Penobscot County, who are found to be needy and deserving, and whose scholarship and conduct are satisfactory.

THE ELIZABETH ABBOTT BALENTINE SCHOLARSHIP, \$75, the gift of the Gamma Chapter of Alpha Omicron Pi, is awarded annually by the Committee on Scholarships to a woman member of the sophomore class, on recommendation of the Chapter with the approval of the President, on a basis of scholarship and individual need.

THE CLASS OF 1905 SCHOLARSHIP, the income from a one-thousand dollar bond, donated by members of the Class of 1905, is awarded to a man of the freshman class pursuing a regular curriculum, whose deportment is satisfactory, and who attains the highest rank in the mid-year examinations.

THE CARROL C. JONES SCHOLARSHIP, the net income from a fund of \$1000 bequeathed by Minnie E. Jones, of Solon, in memory of her son, Carrol C. Jones, of the Class of 1914, is awarded annually to the student who makes the greatest improvement in his college work during his or her freshman year.

THE OHIO ALUMNI ASSOCIATION SCHOLARSHIP, \$50, established in 1934 by the Ohio Alumni Association, is awarded annually to a student whose character, scholarship, and need justify the award.

THE BOSTON ALUMNI ASSOCIATION SCHOLARSHIPS, two, of \$75 each, established in 1935, are awarded annually to any deserving student at the University, with preference given to male upperclassmen from eastern Massachusetts.

THE LINCOLN COUNTY ALUMNI ASSOCIATION SCHOLARSHIP, \$50, established in 1935, is awarded annually to an upperclassman whose home is in Lincoln County, on a basis of satisfactory academic record and conduct, qualities of leadership, and financial need.

THE NORTHERN AROOSTOOK ALUMNI ASSOCIATION SCHOLARSHIP, \$50, established in 1935, is awarded annually to an upperclass student on a basis of satisfactory scholastic record and conduct, financial need, and qualities of leadership.

THE PHILADELPHIA ALUMNI ASSOCIATION SCHOLARSHIP, \$50, established in 1935, is awarded annually to some needy and deserving student, with preference given to the vicinity of Philadelphia.

THE RHODE ISLAND ALUMNI ASSOCIATION SCHOLARSHIP, \$50, established in 1935, is awarded to a male student from Rhode Island or that portion of Massachusetts represented by the Association, whose personal and scholastic record is satisfactory and who has been prominent in extracurricular activities.

THE SOUTHERN CALIFORNIA ALUMNI ASSOCIATION SCHOLARSHIP, \$50, established in 1935, is awarded annually to some upperclass student whose scholastic record and conduct are satisfactory, who possesses qualities of leadership, and who is in need of financial aid.

THE SOUTHERN NEW HAMPSHIRE ALUMNI ASSOCIATION SCHOLARSHIP, \$75, established in 1935, is awarded to some needy and deserving student, with preference given to the locality represented by the Association.

THE WALDO COUNTY ALUMNI ASSOCIATION SCHOLARSHIP, \$50, established in 1935, is awarded in the spring semester to a student from Waldo County, preferably a freshman, whose character and scholarship standing are high, and who needs financial assistance to continue in college. The award is made by the Committee on Scholarships, subject to the approval of the Executive Committee of the Association.

THE WORCESTER COUNTY, MASSACHUSETTS, ALUMNI ASSOCIATION SCHOLARSHIP, \$50, established in 1935, is awarded annually to a worthy student from Worcester County, preferably an entering freshman.

THE YORK COUNTY ALUMNI ASSOCIATION SCHOLARSHIP, \$50, established in 1935, is awarded to an upperclassman from York County whose scholastic record and conduct are satisfactory, who possesses qualities of leadership, and who needs and merits financial aid.

THE WESTERN MASSACHUSETTS ALUMNI ASSOCIATION SCHOLARSHIP, \$50, established in 1935, is awarded to a needy and deserving student from western Massachusetts.

THE CONNECTICUT ALUMNI ASSOCIATION SCHOLARSHIP, \$50, established in 1935, is awarded annually to a needy and deserving student, with preference given to students from Connecticut.

THE KNOX COUNTY ALUMNI ASSOCIATION SCHOLARSHIP, \$75, established in 1936, is awarded annually to a student from Knox County whose record and conduct have been satisfactory and who needs and merits help.

THE SOMERSET COUNTY ALUMNI ASSOCIATION SCHOLARSHIP, \$50, established in 1936, is awarded annually to a needy and deserving senior or junior student from Somerset County.

THE PISCATAQUIS COUNTY ALUMNI ASSOCIATION SCHOLARSHIP, \$50, established in 1937, is awarded annually to an upperclass student whose home is in Piscataquis County, who has made a satisfactory record and who needs and merits financial assistance.

THE SOUTHERN KENNEBEC ALUMNI ASSOCIATION SCHOLARSHIP, \$50, established in 1937, is awarded annually to a needy and deserving student whose home is within the area of the Association. Preference is to be given to juniors and seniors.

THE PORTLAND ALUMNAE ASSOCIATION SCHOLARSHIP, \$50, established in 1938 by the Portland Club of University of Maine Women, is awarded annually to a deserving upperclass woman whose home is in Cumberland County. The award is made upon the basis of need of financial assistance, satisfactory record and conduct, and evidence of qualities of leadership and of scholastic attainment.

THE HANCOCK COUNTY ALUMNI ASSOCIATION SCHOLARSHIP, \$50, established in 1939, is awarded annually to an upperclass student from Hancock County whose scholastic record and conduct are satisfactory, who possesses qualities of leadership, and who merits and needs financial aid.

THE JOHN M. OAK SCHOLARSHIP, the income from a fund of \$1500, established in 1935 by the estate of Mr. Oak, a graduate of the Class of 1873 and a Trustee of the University from 1908 to 1915, for the advancement of the art of public speaking in the University, is awarded annually to that upperclass student who shall have delivered the best speech of the persuasive type in a contest held for that purpose.

THE CLASS OF 1911 SCHOLARSHIP, the income from a fund of \$1000 donated to the University of Maine Foundation in 1936, is awarded annually to an upperclass student of good character and satisfactory conduct and rank, who possesses qualities of leadership and who needs and merits financial aid. Special consideration is given in the award to sons and daughters of members of the Class of 1911.

THE AGRICULTURAL CLUB SCHOLARSHIP, \$50, is awarded annually to that male member of the junior class who, in addition to having been active in the Agricultural Club, has maintained a creditable academic record and needs and merits financial aid. Award is made by a committee comprising the Dean of the College of Agriculture as chairman, the Director of Short Courses in the College of Agriculture, and the Accountant of the University.

THE MAINE FARM BUREAU FUND SCHOLARSHIP, \$75, is awarded annually to a junior or senior student, resident of Maine, in the College of Agricul-

ture, on a basis of character, scholarship, financial need, and qualities of leadership. The Dean of the College of Agriculture, the Secretary of the Farm Bureau Federation, and the Accountant of the University constitute the committee on award.

THE CLASS OF 1909 FUND SCHOLARSHIP, the income from a fund of \$1000 presented to the University of Maine Foundation by the members of the Class of 1909 at their twenty-fifth reunion, is used for scholarship awards to worthy students in need of financial aid.

THE CHI OMEGA SOCIOLOGY PRIZE, \$25, is offered annually by the Chi Omega Sorority, in accordance with its national policy, to the woman student in the sophomore or junior class who secures the highest grade in the beginner's course in sociology. Her general deportment and interest in the study of sociology may also be considered in determining the award.

THE PRIZE OF THE CLASS OF 1873, the income from \$1000, the gift of Russell W. Eaton, of Brunswick, a member of the Class of 1873, is awarded annually to that member of the sophomore class who is able to show the greatest improvement in mechanical drawing during the first two years of his college course. It is expected that candidates for this prize shall have had no training in mechanical drawing previous to entering the University.

THE ALPHA OMICRON PI ALUMNAE PRIZE, \$10, given by the Bangor Alumnae Chapter of Alpha Omicron Pi, is awarded annually to the woman student showing the greatest improvement in her work during her freshman year. The record at the Registrar's office, showing the comparison of grades of the fall semester with those of the spring semester, shall furnish the basis of award.

THE SIGMA MU SIGMA AWARD, \$25, is given annually by the honorary society Sigma Mu Sigma to a member of the current sophomore or junior class who shall have completed at least a semester and a half of the introductory course in General Psychology, on a basis of proficiency, interest, and general promise in the subject. Nominations for the award are made to the president of the society by the instructors in the course about the middle of the spring semester, and it becomes available upon the student's return to the University in the following semester.

THE PALE BLUE KEY AWARD, \$50, is given each year by the Pale Blue Key to some member of the freshman class who needs help, has shown promise in track athletics in his freshman year, and has maintained a satisfactory scholarship standing. The award is made by a committee comprising the president of the Pale Blue Key, the coach of track athletics, and a member of the faculty to be chosen by the club, subject to the approval of the President. The winner will be given the award upon his return to the University in his sophomore year. Applications must be made in writing and sent to

either the coach of track athletics or the president of the Pale Blue Key before May 1.

THE HENRY L. GRIFFIN PRIZE IN ENGLISH COMPOSITION, \$10, in honor of the late Rev. Henry L. Griffin, of Bangor, is awarded by the Department of English for excellence in the freshman course in composition. The chief basis of the award is a competition in writing held during the month of April.

THE FRANKLIN DANFORTH PRIZE, \$15, the gift of the Hon. Edward F. Danforth, of Skowhegan, a graduate of the University of the Class of 1877, in memory of his father, Franklin Danforth, is awarded to that member of the senior class in the College of Agriculture who attains the highest standing throughout his curriculum.

THE GREEK CULTURE PRIZE, \$15, the gift of the Hon. Edward F. Danforth, of Skowhegan, a graduate of the University in the Class of 1877, is awarded annually to that senior who shall have given evidence of the best appreciation of the spirit of Greek culture. The award is made on recommendation of the Professor of Ancient Civilization.

THE SPANISH CLUB PRIZE, \$10, is awarded annually by the Circulo Español for excellence in Elementary Spanish to a freshman student, on the basis of a competitive examination.

THE ROBERT C. HAMLET PRIZE, \$25, established in 1935, in accordance with the will of Mr. Hamlet, a graduate of the University in the Class of 1925, is awarded annually to that student in the University who shall have written the best original one-act play during the year of award. The judges are the Dean of the College of Arts and Sciences, the head of the Department of English, and the president of the Maine Masque.

THE CLAUDE DEWING GRATON PRIZE, the income from four shares of stock donated by Mr. Graton, of the Class of 1900, is awarded annually to a regularly enrolled undergraduate student under twenty-five years of age who shall have written the best essay on some current constitutional question. Entry for competition should be made with the Professor of Government before January 1.

THE MARY ELLEN CHASE PRIZE, \$100, given by Dr. Mary Ellen Chase, a graduate of the University in the Class of 1909, is awarded at Commencement to that student in the University who shall have submitted the best piece of original prose dealing with some aspect of the State of Maine. The award is made by a committee of judges selected by the head of the Department of English.

THE ALPHA ZETA SENIOR AWARD, \$15, is given annually by the honorary fraternity Alpha Zeta to a high-ranking senior member whose college career has been marked by useful service in campus activities.

THE SENIOR ENGLISH ESSAY PRIZE, \$10, is given by the Department of

English to the senior major student submitting the best critical essay as a part of the comprehensive major examinations in English.

THE MAINE HARDWOOD ASSOCIATION FUND.—The income from a fund of \$870, established in 1939, is awarded as prizes to students in the Forestry curriculum who present the best contributions in the form of essays on the subject of the marketing and utilization of Maine hardwoods. The rules of competition and the awarding of such prizes are to be determined by a committee consisting of the head of the Forestry Department and one or more other members of the faculty, appointed by the President of the University.

THE CLASS OF 1908 COMMENCEMENT CUP, donated by the Class of 1908 alumni, is awarded to that graduate class, the largest percentage of whose members register during Commencement Week.

THE TWENTIETH CENTURY CUP, given by the New York Alumni Association, is awarded annually at Commencement to that graduate class in the Twentieth Century group, the largest percentage of whose members register before six o'clock on Alumni Day.

THE FRATERNITY SCHOLARSHIP CUP is awarded to the fraternity having the highest standing in scholarship for the preceding calendar year. The cup becomes the permanent property of the fraternity to which it is awarded the greatest number of times during an eleven-year period. The original cup was presented by the 1910 Skulls and was renewed in 1921 for an eleven-year period by the 1921 Skulls, and in 1932 by the 1932 Skulls. The first cup was awarded permanently in 1921 to Phi Eta Kappa and the second in 1932 to Lambda Chi Alpha.

THE WASHINGTON ALUMNI ASSOCIATION WATCH is presented annually by the Alumni Association of Washington, D. C., to the male member of the graduating class who, in the opinion of the students and the University administration, has done the most for the University during his course. This award is made as the result of a secret ballot by the students, passed upon by the President and the Administrative Committee.

THE PORTLAND ALUMNAE ASSOCIATION WATCH is presented annually by the Portland Club of University of Maine Women to the woman member of the graduating class who, in the opinion of the students and the University administration, has done the most for the University during her course. This award is made as the result of a secret ballot by the students, passed upon by the President and the Administrative Committee.

THE AGRICULTURAL CLUB MEMBERSHIP CUP, furnished by the Agricultural Club, is engraved each year with the numerals of that undergraduate class which holds the best record of membership in the club.

THE CHARLES RICE CUP, presented in 1921 by the Kappa Sigma Fraternity in honor of Charles Anthony Rice, of the Class of 1917, who was killed in service, is held for one year by the team winning the Intramural Track Championship.

THE INTRAMURAL PLAQUES are presented each year by the Intramural Athletic Association to the fraternity making the best showing in each major intramural sport, and a special plaque is given to that fraternity which makes the best performance in all the sports.

DEGREES

The degree of Bachelor of Arts (B.A.), with specification of the major subject, is conferred upon all students who complete a curriculum in the College of Arts and Sciences.

The degree of Bachelor of Science (B.S.) in the curriculum pursued is conferred upon students who complete the work of four years in the Colleges of Agriculture or Technology according to the requirements prescribed by those Colleges and the University.

The degree of Bachelor of Arts in Education (B.A. in Ed.), Bachelor of Science in Education (B.S. in Ed.), Bachelor of Science in Commercial Education (B.S. in C.Ed.), Bachelor of Science in Fine Arts Education (B.S. in F.A.Ed.), or Bachelor of Science in Music Education (B.S. in Mus.Ed.) is conferred upon students who complete the prescribed work in the School of Education.

A minimum residence of one year is required for the attainment of any bachelor's degree. This regulation refers to the senior year. No student will be recommended for a degree who, having been reported to the Committee on Student's Use of English of his college, shall have failed to satisfy the requirements of the committee.

The degrees of Master of Arts (M.A.), Master of Science (M.S.), and Master of Education (M.Ed.) are granted for one year's graduate work completed with distinction.

Degrees with Distinction and with Honors

Degrees with distinction are conferred at Commencement for the following attainments in rank:

Seniors in the Colleges of Agriculture and Technology having an average grade of 3.50 or above are graduated with highest distinction, 3.25 to 3.49 with high distinction, and 3.00 to 3.24 with distinction.

Seniors in the College of Arts and Sciences and the School of Education having an average grade of 3.75 or above are graduated with highest distinction, 3.50 to 3.74 with high distinction, and 3.25 to 3.49 with distinction.

The average grade is based on the work of the first three and one-half years, which must include three years of resident study at the University of Maine for students in the Colleges of Agriculture, Arts and Sciences, and Technology and two years in the School of Education for students who have transferred from other institutions. Candidates in the Colleges of Agriculture, Arts and Sciences, and Technology must have completed seven-eighths and in the School of Education three-fourths of the required hours at the end of the fall semester of the senior year. Candidates must take their senior year at the University of Maine.

Seniors in the College of Arts and Sciences who complete satisfactorily the Honors program are graduated with Honors, with High Honors, or with Highest Honors.

STUDENT REGULATIONS

It is assumed that all students entering the University are willing to subscribe to the following: *A student is expected to show, both within and without the University, respect for order, morality, and the rights of others, and such sense of personal honor as is demanded of good citizens.*

The quota of regular studies for each student varies from a minimum of fourteen hours to a maximum of seventeen hours in the College of Arts and Sciences, from a minimum of fourteen hours to a maximum of eighteen hours in the School of Education, and from a minimum of seventeen hours to a maximum of twenty-two hours in the College of Technology and the College of Agriculture except that in the Department of Home Economics the limits are fourteen hours and nineteen hours. In the application of this rule, two or three hours of laboratory work count as one hour.

Each student is expected to be present at every college exercise for which he is registered.

Detailed information about the regulations affecting students is contained in a pamphlet which may be obtained at the office of the Registrar.

Notices to Parents

Grade reports are sent to parents of all freshmen at the middle and end of the fall semester and at the end of the spring semester. Grade reports and letters pertaining to probation or trial are sent to parents of all students.

Parents are notified whenever a student is placed or continued on probation or continued on trial. They are also notified when the student is removed from probation or trial. While a student's work progresses satisfactorily, semester grade reports are not mailed to parents although a report will be sent at any grade period if desired. Application should be made to the Registrar.

Use of Automobiles by Freshmen

Freshmen are not permitted to have or operate automobiles at the University of Maine. This regulation prohibits a freshman from bringing or keeping an automobile on the campus or in Orono or vicinity. Freshmen are expected to observe the spirit as well as the letter of the regulation, and the coöperation of parents is solicited in the operation of the rule. The regulation also applies to motor cycles. Exceptions may be made by the Deans of Men and Women in the case of freshmen who commute daily from their homes.

Organization of the University

The University is divided for purposes of administration by the Trustees into two divisions, the academic and the financial. The former is divided into the Colleges of Agriculture, Arts and Sciences, and Technology, the School of Education, and the Maine Agricultural Experiment Station. To the College of Agriculture belongs the Agricultural Extension Service. The policies of the University as a unit are determined by the Board of Trustees, the administrative officers, and the general faculty, but each division regulates those affairs which concern itself alone. In addition to the faculties of the colleges there are the Faculty of Graduate Study and the Faculty of the Summer Session.

College of Agriculture

Curricula in Agricultural Economics and Farm Management, Agricultural Education, Agricultural Engineering, Agronomy, Animal Husbandry, Bacteriology, Biochemistry, Botany, Dairy Husbandry, Dairy Technology, Entomology, Forestry, Home Economics, Horticulture, Poultry Husbandry, and Wildlife Conservation.

Two-Year Course in Agriculture.

Short Courses in Agriculture.

Farm and Home Week.

Extension Lecture Courses.

College of Arts and Sciences

Curricula may be pursued either in departmental subjects: Chemistry, Classics, Economics, English, German, Government, History, Mathematics, Philosophy, Physics, Psychology, Public Speaking, Romance Languages, Sociology, or Zoology; in fields of professional or cultural interest, such as business administration, journalism, social work, teaching, nursing, creative writing, dramatics, or politics; or in preparation for graduate training in law, medicine, theology, public administration, education, engineering, social service, dentistry, or optometry.

All curricula are designed to give a broad cultural foundation for whatever vocation or profession may be pursued. In the junior and senior years, attention is concentrated upon the student's field of major interest.

School of Education

Professional training is offered for secondary-school teachers and prospective principals and supervisors in the public schools, and to a limited extent in elementary education. For these curricula the degree of Bachelor of Arts in Education is given for those who have spent at least two years in a liberal arts college, and the degree of Bachelor of Science in Education for those who transfer from normal schools or other types of institutions.

Three special curricula are also offered as follows: in commercial education for those transferring from certain approved commercial schools, leading to the degree of Bachelor of Science in Commercial Education; in music education for students transferring from the Northern Conservatory, leading to the degree of Bachelor of Science in Music Education; and in fine arts education for students completing an approved curriculum in the Portland School of Fine and Applied Art and Westbrook Junior College, leading to the degree of Bachelor of Science in Fine Arts Education.

College of Technology

Curricula in Chemical Engineering, option in Pulp and Paper Technology; Chemistry; Civil Engineering, options in Highway, Hydraulic, and Sanitary Engineering; Electrical Engineering, options in Communication and Light and Power; Engineering Physics; General Engineering; and Mechanical Engineering.

Faculty of Graduate Study

Programs of study leading to the degrees of Master of Arts, Master of Science, and Master of Education are available in most departments. The professional degrees of Chemical Engineer, Civil Engineer, Electrical Engineer, and Mechanical Engineer are granted upon completion of the appropriate requirements.

Maine Agricultural Experiment Station

Offices and principal laboratories at Orono; Highmoor Farm at Monmouth; Aroostook Farm at Presque Isle.

Summer Session

A session of six weeks is maintained for teachers and college students. Work is offered at present in eighteen departments.

College of Agriculture

GENERAL INFORMATION

The College of Agriculture comprises the Departments of Agricultural Economics and Farm Management, Agricultural Education, Agronomy and Agricultural Engineering, Animal Industry, Bacteriology and Biochemistry, Botany and Entomology, Forestry, Home Economics, Horticulture, Poultry, Short Courses, and Extension Service. This college offers to young men and women an opportunity to secure a broad education and thorough training in the sciences and technics relating to the major course of study they may elect to pursue. It aims to prepare them for lives of usefulness as citizens of the State and for effective service in their chosen vocations or professions.

More specific and detailed information concerning the purposes of each major course of study offered by the College will be found in the description of the various curricula.

The four-year curricula in the College of Agriculture require the completion of 147 credit hours, with the exception of those of Forestry and Home Economics, which comprise 153 and 128 hours respectively. In addition each student must accumulate a total of grade points equal to the number of hours required for graduation in the curriculum chosen. These grade points are computed by multiplying each hour of the letter grade by a factor as follows: A by 3, B by 2, C by 1, and D by 0. Upon the completion of the required curriculum, with the necessary number of grade points, the student will be recommended for the degree of Bachelor of Science (B.S.).

All students registered in the College of Agriculture should obtain summer work in their respective major fields in order better to prepare themselves for future entrance into those fields.

Physical training is required in each semester of the first two years. No credit toward a degree is allowed for this work. Physical training is not required in the two-year agricultural curriculum.

Students in Agriculture who contemplate entering experiment station chemical work should elect the courses offered in Biochemistry covering the qualitative and quantitative chemical analysis of feeds, fertilizers, and dairy products. They should also elect a preparatory course in quantitative chemical analysis.

Students desiring to specialize in the botanical or entomological aspects of Forestry may offer freshman and sophomore years in Forestry as equivalent to the first two years' work in Agriculture and register in the curriculum in Botany and Entomology during the junior or senior years.

A star (*) before the time designated for a course indicates that three or sometimes more hours of actual work are required to obtain a credit of one hour; a dagger (†) indicates that two hours of actual work are required to obtain a credit of one hour.

REGULAR CURRICULA AND COURSES OF INSTRUCTION

The courses of instruction are organized as follows:

1. Four-Year Major Agricultural Curricula:
Agricultural Economics and Farm Management, Agricultural Education, Agricultural Engineering, Agronomy, Animal Husbandry, Bacteriology, Biochemistry, Botany and Entomology, Dairy Husbandry, Dairy Technology, Horticulture, and Poultry Husbandry
2. Four-Year Forestry Curricula:
Forestry, Wildlife Conservation
3. Four-Year Home Economics Curricula:
Vocational Sequences
 1. Home Economics Education
 2. Extension-Home Demonstration or 4-H Club Work
 3. Foods and Nutrition
 4. Textiles and Clothing
 5. Development and Training
 6. Special Sequences: Home Economics Journalism, Household Equipment, Social Service, and others formulated to fit individual cases
4. The Two-Year Course in Agriculture
5. Short Courses in Agriculture
6. Farm and Home Week
7. Extension Lecture Courses

THE FOUR-YEAR AGRICULTURAL CURRICULA

The four-year agricultural curricula are designed for those who wish to engage in the business of farming; for those contemplating the special fields of agricultural economics and farm management, agricultural engineering,

agronomy, animal husbandry, bacteriology, biological and agricultural chemistry, botany and entomology, dairy husbandry, dairy technology, horticulture, and poultry husbandry; and for those desiring to enter a field of public service for which training in agriculture is requisite. In addition to the specific fields mentioned above there are many other opportunities open to the college trained man in the agricultural and associated industries.

Certain studies are fundamental to all work in agricultural lines, and for this reason as many of these subjects as possible are offered in the first year, during which the student is necessarily given no choice of subjects. Beginning with the sophomore year each student should start specialization in one of the following major curricula: Agricultural Economics and Farm Management, Agricultural Education, Agronomy, Animal Husbandry, Biochemistry, Dairy Husbandry, Dairy Technology, Horticulture, or Poultry Husbandry. In Agricultural Engineering, Bacteriology, and Botany and Entomology, specialization begins with the freshman year.

It should be noted that each major curriculum allows a student a number of elective hours. The elective subjects are selected with the advice of the major instructor. In view of the fact that the economic aspects of the agricultural industry have become so vitally important, it is suggested that the student elect subjects in the field of agricultural economics and farm management in addition to those which may be required in his major curriculum; particularly it is suggested that he obtain as much information as he possibly can on the marketing of agricultural products. In the case of those students majoring in Agricultural Economics and Farm Management, opportunity is offered in the way of elective hours to obtain training in such of the agricultural production subjects as may be desired to furnish a basic production background.

Preparation for Public Service

Federal, state, and local public service agencies offer numerous opportunities for employment for men trained in agriculture. Numbered among these agencies are Federal and state experiment stations, state colleges of agriculture, secondary schools, agricultural extension services, and Federal and state administrative bureaus in the fields of regulation, agricultural credit, agricultural adjustment, farm security, and soil conservation.

Specialized training for these fields of public service may be secured by the proper selection of a major agricultural curriculum and the use of electives in supplementing technical training in agriculture with courses in public speaking, economics, sociology, finance, business law, and history and government.

Honor Course in Agriculture

Any student who has obtained an average grade of at least 3.25 in the courses offered by his major department during the first three years of his college course may register for honor courses in his major department or in an allied department during his senior year, providing his average grade in such allied department is at least 3.25 in all subjects taken in that department. Such courses may be substituted for any elective course, the total number of credit hours not to exceed four. Such honor courses shall be designed especially to promote initiative and organizing ability in the student. The scope of such courses shall constitute a broad survey in the field selected for study and shall in no way be substituted for a thesis. The general plan shall be worked out by the head of the department in which the course is taken, and must be approved by the head of the student's major department.

Curriculum for the Freshman Year for All Students Taking Four-Year Curricula in Agriculture

FALL SEMESTER			SPRING SEMESTER		
No.	Subject	Cr. Hours	No.	Subject	Cr. Hours
Ag 11	Field Crops, 2 †2.....	3	An 2	General Animal Hus-	
Ch 1	General Chemistry, 2 †4..	4		bandry, 2 †2.....	3
Eh 1	Composition	3	Bt 2	General Botany, 2 †4....	4
Mt 1	Military, †3.....	1½	Ch 2	General Chemistry, 2 †4..	4
Ph 1	General Poultry Hus-		Eh 2	Composition	3
	bandry, 2 †2.....	3	Ht 2	General Horticulture,	
Zo 1	General Zoology, 2 †4....	4		2 †2.....	3
Pt 1	Physical Education, 2....	0	Mt 2	Military, †3	1½
			Pt 2	Physical Education, 2... 0	
		<hr/> 18½			<hr/> 18½

Curriculum for Students Specializing in Agricultural Economics and Farm Management

The curriculum in Agricultural Economics and Farm Management is planned to give the student a broad, comprehensive training in the economic principles of the production and marketing of agricultural products. The training in crops and livestock production, provided in this curriculum, is

essential for a clear and proper understanding of the application of the principles of agricultural economics. The student may choose from the elective hours a sufficient amount of work in another department to prepare himself for a position in Agricultural Economics and Farm Management dealing with a particular group of agricultural products. The student upon completing this curriculum of study may engage in some phase of one of the main divisions in the field, such as agricultural economics, farm management, agricultural marketing including coöperative marketing, agricultural statistics, or agricultural finance. Any one of these divisions offers many opportunities to the graduate.

Sophomore Year

FALL SEMESTER			SPRING SEMESTER		
<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Ag 1	Soils, 2 †2	3	*Ag 14	Sweet Corn, Beans, and Peas, 1 †2	} 2
An 21	Livestock Feeding, 3 †2	4		or	
Bt 45	General Genetics	3	*Ag 16	Forage and Pasture Crops, 1 †2	
Dh 1	General Dairying, 2 †2	3	Bc 8	Agricultural Chemistry	2
Es 1a	Principles of Economics	3	Fm 48	Agricultural Economics	3
Mt 3	Military, †3	2	Mt 4	Military, †3	2
Pt 3	Physical Education, 2	0	Pt 4	Physical Education, 2	0
				Elective	10
<hr/>			<hr/>		
18			19		

Junior Year

<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
*Ag 15	Potato Production, 2 †2	3	Fm 52	Farm Accounting, 1 *6	} 3
By 3	Bacteriology	2	Fm 62	Agricultural Business Accounting, 2 *3	
Eh 5	Technical Composition	2	Fm 76	Agr. Marketing	3
Fm 73	Adv. Agr. Economics	2		Elective	12
Fm 75	Agricultural Statistics, 1 *6	3			
	Elective	10 or 7			
<hr/>			<hr/>		
19			18		

* Only one course required (Ag 14, 15 or 16).

COLLEGE OF AGRICULTURE

Senior Year

FALL SEMESTER

SPRING SEMESTER

<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Fm 77	Agricultural Finance.....	2	Fm 74	Farm Management, 3 *3.	4
Fm 79	Coöperation in Agriculture	3	†	Marketing	2
Fm 87	Agricultural Prices	3		Elective.....	14 or 12
	Marketing	2			
	Elective	8			
		18			18

† Not required if taken in fall.

Curriculum for Students Specializing in Agricultural Education

In recent years there has developed an ever-increasing demand for men to teach vocational agriculture in secondary schools. This has been brought about in part through Federal legislation which provides special aid to help finance vocational agricultural courses.

Agricultural college graduates who have not taken the special courses designed to fit men for the teaching of vocational agriculture are not permitted to teach agriculture in schools receiving Federal aid for vocational agriculture.

Students who wish to qualify for appointment as teachers of vocational agriculture may do so by taking either a major or a minor in Agricultural Education.

Those who major will follow the prescribed curriculum.

Those who minor must elect all of the courses listed under Agricultural Education. In addition, Ag 41, 42, 43, 44 should be elected.

Sophomore Year

<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Ag 1	Soils, 2 †2.....	3	Bc 2	Biochemistry, 3 †4.....	5
An 21	Livestock Feeding, 3 †2... 4	4	Bc 8	Agricultural Chemistry..	2
Bc 1	Organic Chemistry, 2 †2..	3	Fm 48	Agricultural Economics..	3
En 21	General Entomology, 2 †4.	4	Fy 20	Woodlot Forestry.....	2
Py 1	General Psychology, 2 †2..	3	Py 2	General Psychology, 2 †2	3
Mt 3	Military, †3.....	2	Mt 4	Military, †3.....	2
Pt 3	Physical Education, 2.....	0	Pt 4	Physical Education, 2... 0	0
				Elective	2
		19			19

Junior Year

FALL SEMESTER			SPRING SEMESTER		
<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Ae 3	Special Methods in Teaching Agriculture.....	2	Ae 2	Practice Teaching	2
Ag 41	School Shop, †2.....	1	Ae 6	Special Methods in Teaching Agriculture ...	2
By 3	Bacteriology	2	Ag 6	Fertilizers	2
Dh 1	General Dairying, 2 †2....	3	Ag 16	Forage and Pasture Crops, 1 †2.....	2
Eh 5	Technical Composition....	2	Ag 36	Farm Power, 2 *3.....	3
	Elective	8	Ag 42	School Shop, †2.....	1
			Fm 76	Agricultural Marketing ..	3
				Elective	3
		<hr/> 18			<hr/> 18

Senior Year

<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Ae 1	Practice Teaching	2	Ae 8	Teaching Farm Mechanics	2
Ae 5	Supervised Farm Practice. 2		Ag 30	Farm Machinery, 2 *3... 3	3
Ag 15	Potato Production, 2 †2... 3	3	Ag 44	School Shop, †2.....	1
Ag 35	Drainage and Land Reclamation, 2 *3.....	3	Fm 52	Farm Accounting, 1 *6.. 3	3
Ag 43	School Shop, †2.....	1	Fm 74	Farm Management, 3 *3. 4	4
Fm 73	Advanced Agr. Economics 2			Elective	5
	Elective	5			<hr/> 18
		<hr/> 18			<hr/> 18

**Curricula for Students Specializing in Agronomy or
Agricultural Engineering**

AGRONOMY

The curriculum in Agronomy is designed to acquaint the student with the principles involved in crop production. A general background is provided by introductory courses in each of the basic sciences related to crop production and utilization. Specific training is offered in soils, fertilizers, and crops with special emphasis on conditions existing in the Northeast.

During the junior and senior years the curriculum provides the possibility of selecting a minor in Agricultural Education or specializing in other fields of interest.

This curriculum prepares a student for graduate study or employment in the various fields of agriculture. The more important employment opportunities are in teaching, extension service, research in state or Federal institutions, and sales or promotional work with private industries dealing in agricultural products.

Sophomore Year

FALL SEMESTER			SPRING SEMESTER		
<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Ag 1	Soils, 2 †2.....	3	Ag 16	Forage and Pasture	
Ag 15	Potato Production, 2 †2... 3	3		Crops, 1 †2.....	2
An 21	Livestock Feeding, 3 †2... 4	4	Bc 2	Biochemistry, 3 †4.....	5
Bc 1	Organic Chemistry, 2 †2.. 3	3	Bc 8	Agricultural Chemistry..	2
En 21	General Entomology, 2 †4. 4	4	Fm 48	Agricultural Economics..	3
Mt 3	Military, †3.....	2	Mt 4	Military, †3.....	2
Pt 3	Physical Education, 2.....	0	Pt 4	Physical Education, 2... 0	
				Elective	5
<hr/>			<hr/>		
19			19		

Junior Year

<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Bt 45	General Genetics	3	Ag 6	Fertilizers	2
Bt 53	Plant Physiology, 2 †4....	4	Ag 30	Farm Machinery, 2 *3... 3	
By 1	Bacteriology, †6	3	Bt 30	Plant Ecology, 1 †2.....	2
By 3	Bacteriology	2	Bt 56	Plant Pathology, 2 †4... 4	
Eh 5	Technical Composition....	2	Fm 76	Agr. Marketing.....	3
	Elective	4		Elective	4
<hr/>			<hr/>		
18			18		

Senior Year**FALL SEMESTER**

<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Ag 5	Soil Formation, Erosion and Conservation.....	3
Ag 81	Seminar	1
By 55	Bacteriology (Soil), 1 †4	3
	Elective	11
		<hr/> 18

SPRING SEMESTER

<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Ag 82	Seminar	1
Fm 74	Farm Management, 3 *3	4
	Elective	13
		<hr/> 18

AGRICULTURAL ENGINEERING

The curriculum in Agricultural Engineering is arranged to permit the student to specialize in either mechanical, electrical, or civil engineering as applied to agriculture, or in commercial work in the agricultural engineering field.

A minimum of fifty credits is taken in agriculture to familiarize the student with the various branches of that field. Courses such as mathematics, physics, chemistry, and drafting, which are fundamental to Agricultural Engineering, are required during the first two years. During the junior and senior years the student is allowed considerable freedom in electing courses in that field of engineering in which his interests lie.

Opportunities for employment for the Agricultural Engineer exist wherever engineering principles are applied to agriculture. Men so trained may be employed in sales or research departments of farm implement companies or rural electrification products manufacturers, and by state colleges of agriculture or the U. S. Department of Agriculture. Other fields are rural line extension; design and construction of farm buildings; and development of drainage, irrigation, and soil conservation projects.

Freshman Year

FALL SEMESTER

SPRING SEMESTER

<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Eh 1	Composition	3	Eh 2	Composition	3
Md 1	Fundamentals of Draft- ing, †4	2	Ht 2	General Horticulture, 2 †2	3
Ms 1	Trigonometry	2	Md 2	Elementary Machine Drafting, †4	2
Ms 3	Algebra	2	Ms 6	Analytic Geometry	4
Mt 1	Military, †3	1½	Mt 2	Military, †3	1½
Ph 1	General Poultry Hus- bandry, 2 †2	3	Ps 2b	General Physics, 4 †2	5
Ps 1b	General Physics, 4 †2	5	Pt 2	Physical Education, 2 ...	0
Pt 1	Physical Education, 2	0			
		<hr/> 18½			<hr/> 18½

Sophomore Year

<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Ag 11	Field Crops, 2 †2	3	Ag 42	School Shop, †2	1
Ag 41	School Shop, †2	1	An 2	General Animal Hus- bandry, 2 †2	3
Ch 1	General Chemistry, 2 †4 ..	4	Ch 2	General Chemistry, 2 †4 ..	4
Md 3	Descriptive Geometry	2	Fm 48	Agricultural Economics ..	3
Ms 7	Differential Calculus	5	Ms 8	Integral Calculus	5
Mt 3	Military, †3	2	Mt 4	Military, †3	2
Ps 21	Mechanics and Heat Laboratory, †4	2	Pt 4	Physical Education, 2 ...	0
Pt 3	Physical Education, 2	0			
		<hr/> 19			<hr/> 18

Junior Year

Ag 1	Soils, 2 †2	3	Ag 30	Farm Machinery, 2 *3 ..	3
Ag 33	Farm Structures, 2 *3	3	Ag 36	Farm Power, 2 *3	3
En 21	General Entomology, 2 †4 ..	4	Me 36	Mechanical Laboratory, †3	1½
	Elective	8		Elective	12
		<hr/> 18			<hr/> 19½

Senior Year

FALL SEMESTER			SPRING SEMESTER		
<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Ag 35	Drainage and Land Reclamation, 2 *3.....	3	Ag 6	Fertilizers	2
Ag 81	Seminar	1	Ag 82	Seminar	1
By 3	Bacteriology	2	Ee 36	Alternating Currents	2
Dh 1	General Dairying, 2 †2....	3	Ee 38	Electrical Laboratory, †3.	1½
Ee 35	Direct Current Machinery.	2		Elective	11
	Elective	7			
<hr/>			<hr/>		
18			17½		

ANIMAL HUSBANDRY

The curriculum in Animal Husbandry is so arranged that the student receives a comprehensive training in animal breeding, feeding, and management, consideration being given to the four chief groups of farm animals, cattle, horses, swine, and sheep. Because of the importance of crops to the maintenance of farm animals, this curriculum embraces subjects relating to crop production and farm management. The student on completion of this curriculum may engage in the business of animal breeding, furthering the promotion of pure bred livestock utilization; he may enter special phases of animal industry, such as Federal extension, control and investigational lines; he may become the superintendent of an animal breeding establishment; he may engage in college or university teaching of animal husbandry; or he may enter into any one of the great allied industries of animal industry, such as the meat packing business or the commercial feed business. The training he has received has furnished him with the necessary fundamental equipment to enable him to succeed.

Curricula for Students Specializing in Animal Husbandry or Dairy Husbandry

Sophomore Year

FALL SEMESTER			SPRING SEMESTER		
<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Ag 1	Soils, 2 †2.....	3	Ag 6	Fertilizers	2
An 21	Livestock Feeding, 3 †2... 4	4	Ag 16	Forage and Pasture	
Bc 1	Organic Chemistry, 2 †2.. 3	3		Crops, 1 †2.....	2
Dh 1	General Dairying, 2 †2.... 3	3	An 22	Dairy Cattle Produc-	
En 21	General Entomology, 2 †4. 4	4		tion, 2 †2.....	3
Mt 3	Military, †3.....	2	Bc 2	Biochemistry, 3 †4.....	5
Pt 3	Physical Education, 2..... 0	0	Fm 48	Agricultural Economics..	3
			Mt 4	Military, †3.....	2
			Pt 4	Physical Education, 2... 0	0
				Elective	2
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ANIMAL HUSBANDRY

Junior Year

<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
An 23	Beef Cattle and Horse		An 36	Physiology of Domestic	
	Production	2		Animals	3
An 35	Anatomy of Domestic		An 24	Sheep and Swine	
	Animals, 2 †2.....	3		Production, 2 †2.....	3
Bc 9	Animal Biochemistry	2	An 42	Adv. Livestock Mgt., †2	1
Bt 45	Genetics	3	By 52	Bacteriology, 1 †4.....	3
By 1	Bacteriology, †6	3		Elective	8
By 3	Bacteriology	2			
Eh 5	Technical Composition....	2			
	Elective	1			
<hr style="width: 10%; margin-left: auto; margin-right: 0;"/> 18			<hr style="width: 10%; margin-left: auto; margin-right: 0;"/> 18		

Senior Year

FALL SEMESTER			SPRING SEMESTER		
<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Ag 35	Drainage and Land Reclamation, 2 *3.....	3	Ag 30	Farm Machinery, 2 *3 or	} 3
An 37	Animal Hygiene.....	2	Ag 36	Farm Power, 2 *3	
An 55	Animal Nutrition.....	2	An 38	Animal Pathology.....	2
An 63	Seminar	1	An 60	Adv. Animal Breeding, 2 *3.....	3
	Elective	10	An 64	Seminar	1
			Fm 52	Farm Accounting, 1 *6..	3
				Elective	6
<hr/>			<hr/>		
18			18		

DAIRY HUSBANDRY

This curriculum is more specialized than that for Animal Husbandry in that dairy manufactures are included. The student pursuing this plan of study may prepare himself to follow the business of dairy farming from the standpoint of efficient dairy cattle breeding and efficient milk production, or some other phase of the dairy industry, such as the market milk business, butter manufacturing, or cheese manufacturing, each of which is constantly adding to its personnel young men who have received training similar to that offered in the Dairy Husbandry curriculum. In addition to the foregoing, there are many opportunities to follow special lines of endeavor, Federal, state, and commercial, all of which require specialized training in dairy production and dairy manufactures.

Junior Year

<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
An 35	Anatomy of Domestic Animals, 2 †2.....	3	An 36	Physiology of Domestic Animals	3
Bc 9	Animal Biochemistry	2	An 42	Adv. Livestock Judging and Mgt., †2.....	1
Bt 45	General Genetics	3	By 52	Bacteriology, 1 †4.....	3
By 1	Bacteriology, †6	3	Dh 2	Butter Making, 1 †4....	3
By 3	Bacteriology	2		Elective	7
Dh 5	Market Milk, 3 *3.....	4			
Eh 5	Technical Composition....	2			
<hr/>			<hr/>		
19			17		

Senior Year

FALL SEMESTER			SPRING SEMESTER		
<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Ag 35	Drainage and Land Reclamation, 2 *3.....	3	Ag 30	Farm Machinery, 2 *3 or	} 3
An 37	Animal Hygiene.....	2	Ag 36	Farm Power, 2 *3	
An 55	Animal Nutrition.....	2	An 38	Animal Pathology.....	2
An 63	Seminar.....	1	An 60	Adv. Animal Breeding, 2 *3.....	3
Dh 3	Cheese Making, 2 *6.....	4	An 64	Seminar.....	1
	Elective.....	6	By 54	Bacteriology (Dairy), 1 †4.....	3
			Fm 52	Farm Accounting, 1 *6..	3
				Elective.....	3
<hr/>			<hr/>		
18			18		

Curriculum for Students Specializing in Dairy Technology

The course of study outlined in this curriculum is based upon the need for training in fundamental sciences and dairy technologies on the part of the individual desiring to prepare himself for a career in some one of the several major dairy fields, such as market milk, butter, ice cream, or concentrated milk industries, to enter state or municipal milk control work, to engage in educational or industrial research, or to become identified with the dairy equipment and supplies industry.

Sophomore Year

<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
An 21	Livestock Feeding, 3 †2... 4	4	Ag 36	Farm Power, 2 *3.....	3
Bc 1	Organic Chemistry, 2 †2..	3	Bc 2	Biochemistry, 3 †4.....	5
Dh 1	General Dairying, 2 †2....	3	Fm 48	Agricultural Economics..	3
Mt 3	Military, †3.....	2	Mt 4	Military, †3.....	2
Ps 1b	General Physics, 4 †2.....	5	Ps 2b	General Physics, 4 †2....	5
Pt 3	Physical Education, 2.....	0	Pt 4	Physical Education, 2... 0	0
	Elective.....	2			
<hr/>			<hr/>		
19			18		

Junior Year

FALL SEMESTER			SPRING SEMESTER		
<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
By 1	Bacteriology, †6	3	By 54	Bacteriology (Dairy),	
By 3	Bacteriology	2	1 †4		3
Bc 57	Biological Colloids	3	Dh 2	Buttermaking, 1 †4	3
Dh 5	Market Milk, 3 *3	4	Dh 4	Condensed Milk, 2 *3	3
Eh 5	Technical Composition	2	Dh 6	Dairy Products Judging,	
Md 1	Fundamentals of Draft-		†2		1
	ing, †4	2	Md 2	Elementary Machine	
	Elective	2		Drafting, †4	2
				Elective	7
<hr/>			<hr/>		
18			19		

Senior Year

<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Dh 3	Cheese Making, 2 †4	4	Dh 58	Ice Cream Making, 2 †4	4
Dh 51	Dairy Technology	2	Dh 62	Dairy Technology	
Dh 55	Dairy Refrigeration	2		Seminar	1
Dh 61	Dairy Technology Seminar	1	Dh 64	Advanced Dairy Products	
Dh 63	Advanced Dairy Products			Testing, †4	2
	Testing, †2	1	Dh 66	Dairy Machinery, †4	2
Fm 85	Marketing Dairy Products	3	Fm 62	Agricultural Business	
	Elective	5		Accounting, 2 †2	3
				Elective	6
<hr/>			<hr/>		
18			18		

Curriculum for Students Specializing in Bacteriology

This curriculum is designed primarily for those students who desire to fit themselves for laboratory technicians or for research in the fields of general or applied bacteriology. Stress is placed not only upon the agricultural phases of bacteriology, but also upon the sanitary and technical aspects. Students interested in bacteriology as applied to agriculture will take the regular freshman curriculum in Agriculture; others will be guided by the freshman curriculum as outlined below. Two years of German or its equivalent are required.

Freshman Year

FALL SEMESTER

SPRING SEMESTER

<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Ch 1	General Chemistry, 2 †4	4	Ch 2	General Chemistry, 2 †4	4
Eh 1	Composition	3	Bt 2	General Botany, 2 †4	4
Ms 1	Trigonometry	2	Eh 2	Composition	3
Ms 3	College Algebra	2	Ms 6	Analytical Geometry	4
Mt 1	Military, †3	1½	Mt 2	Military, †3	1½
Zo 1	General Zoology, 2 †4	4	Pt 2	Physical Education, 2	0
Pt 1	Physical Education, 2	0		Elective	2
	Elective	2			
		<hr/> 18½			<hr/> 18½

Sophomore Year

<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Ag 1	Soils, 2 †2	3	Bc 2	Biochemistry, 3 †4	5
Bc 1	Organic Chemistry, 2 †2	3	Ch 40	Quantitative Analysis,	
Ch 31	Qualitative Analysis,			1 †2, *6	4
	2 †2, *6	5	Gm 20	German for Chemists	3
Gm 19	German for Chemists	3	Mt 4	Military, †3	2
Mt 3	Military, †3	2	Pt 4	Physical Education, 2	0
Pt 3	Physical Education, 2	0		Elective	4
	Elective	3			
		<hr/> 19			<hr/> 18

Junior Year

<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Bc 41	Biochemistry	3	Bc 60	Physiological Chem.	3
Bt 53	Plant Physiology, 2 †4	4	Bc 64	Biochemical Laboratory	
By 1	Bacteriology, †6	3		Methods, †6	3
By 3	Bacteriology	2	By 52	Bacteriology, 1 †4	3
Ch 21	Introductory Theoretical		By 54	Bacteriology (Dairy),	
	Chemistry	2		1 †4	3
Dh 1	General Dairying, 2 †2	3	Ch 22	Introductory Theoretical	
	or			Chemistry	2
	Elective	3	Gm 22	German for Chemists	3
Gm 21	German for Chemists	3		Elective	2
		<hr/> 20			<hr/> 19

Senior Year

FALL SEMESTER			SPRING SEMESTER		
<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Bc 57	Biological Colloids.....	3	By 62	Seminar	1
By 55	Bacteriology (Soil), 1 †4..	3	By 92	Problem in Bacteriology,	
By 61	Seminar	1		†4 to †8.....	2 to 4
By 91	Problem in Bacteriology,			Elective.....	12 to 14
	†4 to †8	2 to 4			
	Elective	6 to 8			
		<hr/> 17			<hr/> 17

Curriculum for Students Specializing in Biochemistry

The curriculum in Biochemistry is designed to give the student an opportunity to specialize in chemistry of plant and animal life. With proper choice of electives under the direction of the major instructor, students may also pursue special work in agricultural chemistry, particularly in chemistry of the soil and fertilizers.

Freshman Year

<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Ag 11	Field Crops, 2 †2.....	3	An 2	General Animal Hus-	
Ch 1	General Chemistry, 2 †4..	4		bandry, 2 †2.....	3
Eh 1	Composition	3	Bt 2	General Botany, 2 †4....	4
Mt 1	Military, †3.....	1½	Ch 2	General Chemistry, 2 †4..	4
Ph 1	General Poultry Hus-		Eh 2	Composition	3
	bandry, 2 †2.....	3	Ht 2	General Horticulture,	
Zo 1	General Zoology, 2 †4....	4		2 †2.....	3
Pt 1	Physical Education, 2....	0	Mt 2	Military, †3	1½
			Pt 2	Physical Education, 2....	0
		<hr/> 18½			<hr/> 18½

Sophomore Year

FALL SEMESTER

<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Ag 1	Soils, 2 †2.....	3
Bc 1	Organic Chemistry, 2 †2..	3
Ch 31	Qualitative Analysis, 2 †2, *6.....	5
Gm 19	German for Chemists.....	3
Mt 3	Military, †3.....	2
Pt 3	Physical Education, 2.....	0
	Elective	3

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SPRING SEMESTER

<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Bc 2	Biochemistry, 3 †4.....	5
Ch 40	Quantitative Analysis, 1 †2, *6.....	4
Gm 20	German for Chemists...	3
Mt 4	Military, †3.....	2
Pt 4	Physical Education, 2...	0
	Elective	4

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Junior Year

<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Bc 9	Animal Biochemistry.....	2
Bc 53	Agricultural Analysis, †6..	3
By 1	Bacteriology, †6	3
By 3	Bacteriology	2
Ch 21	Introductory Theoretical Chemistry	2
Gm 21	German for Chemists.....	3
	Elective	4

 19

<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Bc 60	Physiological Chem.....	3
Bc 64	Biochemical Laboratory Methods, †6.....	3
By 52	Bacteriology, 1 †4.....	3
Ch 22	Introductory Theoretical Chemistry	2
Gm 22	German for Chemists... 3	
	Elective	4

 18
Senior Year

<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Bc 57	Biological Colloids.....	3
Bc 91	Research, †8.....	4
	Elective	11

 18

<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Bc 92	Research, †8.....	4
	Elective	14

 18
Curricula for Students Specializing in Botany and Entomology

This curriculum is designed for those preparing themselves to engage in research or to enter the field of teaching in either the pure or applied science of botany or entomology. Students interested in botany and entomology as

applied to agriculture or forestry may transfer from either the Agriculture or Forestry curriculum at the beginning of the sophomore year and from the Forestry curriculum at the beginning of the junior year. Others will be guided by the freshman curriculum outlined below. A reading knowledge of French or German is required.

Freshman Year

FALL SEMESTER			SPRING SEMESTER		
<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Ch 1	General Chemistry, 2 †4..	4	Bt 2	General Botany, 2 †4....	4
Eh 1	Composition	3	Ch 2	General Chemistry, 2 †4.	4
Md 1	Fundamentals of Draft- ing, †4.....	2	Eh 2	Composition	3
Ms 1	Trigonometry	2	Md 2	Elementary Machine Drafting, †4.....	2
Ms 3	Algebra	2	Mt 2	Military, †3	1½
Mt 1	Military, †3.....	1½	Zo 4	Animal Biology, 2 †4....	4
Zo 3	Animal Biology, 2 †4.....	4	Pt 2	Physical Education, 2... 0	
Pt 1	Physical Education, 2.....	0			
		<hr/> 18½			<hr/> 18½

Sophomore Year

<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Bc 1	Organic Chemistry, 2 †2..	3	Bc 2	Biochemistry, 3 †4.....	5
Bt 33	Forest Botany (Dendrology), 2 †4.....	4	Gm 2	Elementary German	4
En 21	General Entomology, 2 †4.	4	Mt 4	Military, †3.....	2
Gm 1	Elementary German.....	4	Pb 2	Public Speaking.....	2
Mt 3	Military, †3.....	2	Pt 4	Physical Education, 2... 0	
Pt 3	Physical Education, 2.....	0		Elective	5
	Elective	2			
		<hr/> 19			<hr/> 18

Junior Year

FALL SEMESTER

SPRING SEMESTER

<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Bt 53	Plant Physiology, 2 †4	} 4	Bt 56	Plant Pathology, 2 †4	} 4
	or			or	
Zo 15	Comparative Anat. 2 †4		Zo 16	Comparative Anat., 2 †4	
Bt 57	Taxonomy of Vascular		By 2	Bacteriology, †6	3
	Plants, 2 †4	4	Ce 14	Historical Geology	3
By 3	Bacteriology	2	Eh 10	Modern Literature	2
Eh 5	Technical Composition	2	Gm 4	Short Story	3
Gm 3	Short Story	3		Elective	3
	Elective	4			
		19			18

Senior Year

<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
*Bt 35	Plant Anatomy, 2 †4	4	Bt 30	Plant Ecology, 1 †2	2
Bt 45	General Genetics	3	Bt 46	Genetics Laboratory, †4	2
Bt 59	General Mycology, 2†4	4		Elective	13
Es 1a	Prin. of Economics	3			
	Elective	5			
		19			17

* Entomology students elect.

Curriculum for Students Specializing in Horticulture

The curriculum in Horticulture is intended, not only to provide a good preparation for engaging directly in fruit growing, vegetable gardening, ornamental horticulture, or other horticultural industry, but also to make possible to the graduate a reasonably direct entrance into several professional occupations which may require the additional preparation of a period of intensive graduate study. Prominent among the positions occupied by graduates in horticulture are those of investigators in experiment stations, teachers in colleges and secondary schools, extension agents, and state and Federal employees in the investigational, inspection, and regulatory services.

Although but a single curriculum in horticulture appears in the catalog, tending to place emphasis on a general training in horticulture, the student who wishes to specialize in one division of horticulture may do so by com-

binning a careful selection of elective courses with the completion of one of the following groups as a requirement: (1) fruit culture—Horticulture 1, 9, 10, 53, 55, and Farm Management 74; (2) vegetable gardening—Horticulture 10, 21, 25, and Farm Management 74; (3) floriculture and ornamental horticulture—Engineering Drafting 1 or 9, Horticulture 3, 7, 8, and 15. Problems in Horticulture, Courses 11 and 12, afford still further opportunity for progressive specialization.

Conflicts may largely be avoided by scheduling elective courses in this sequence: sophomore year, Courses 1, 3, 8, 9, and Engineering Drafting 9; sophomore or junior year, Courses 3 and 4; junior year, Courses 7 and 10; junior or senior year, Courses 53, 54, and 55; senior year, Courses 11, 12, 15, 21, 25, and Farm Management 74.

Sophomore Year

FALL SEMESTER			SPRING SEMESTER		
<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Ag 1	Soils, 2 †2.....	3	Bc 2	Biochemistry, 3 †4.....	5
Bc 1	Organic Chemistry, 2 †2..	3	Ag 6	Fertilizers	2
En 21	General Entomology, 2 †4.	4	Fm 48	Agricultural Economics..	3
Mt 3	Military, †3.....	2	Mt 4	Military, †3.....	2
Pt 3	Physical Education, 2....	0	Pt 4	Physical Education, 2... 0	
	Elective	7		Elective	7
		<hr/> 19			<hr/> 19

Junior Year

<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Ag 35	Land Drainage and Reclamation, 2 *3.....	3	Bt 56	Plant Pathology, 2 †4... 4	
Bt 53	Plant Physiology, 2 †4....	4	Ht 6	Landscape Gardening, 2 *3.....	3
By 3	Bacteriology	2	Ht 20	Vegetable Gardening, 2 †2.....	3
Eh 5	Technical Composition....	2		Elective	9
	Horticulture	5			
	Elective	3			
		<hr/> 19			<hr/> 19

Ht 14 Summer Practice (elective) 4 credit hours

Senior Year

FALL SEMESTER			SPRING SEMESTER		
<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Bt 45	General Genetics	3	Ht 52	Seminar	1
Ht 51	Seminar	1		Horticulture	4
	Horticulture	6		Elective	12
	Elective	7			
		<hr/> 17			<hr/> 17

Curriculum for Students Specializing in Poultry Husbandry

The curriculum in Poultry Husbandry is designed to give the student that knowledge and training which is fundamental to success in the various branches of the poultry industry. In addition to the basic sciences, the subjects of poultry breeding, feeding, incubation, brooding, judging, and management are included in the curriculum. Elective courses enable students to gain knowledge in related fields. On completion of this curriculum several lines of endeavor are open to the student, including the operation or management of a poultry farm or hatchery, teaching in high school or college, agricultural extension work, and sales or service work with commission, feed, and equipment companies.

Sophomore Year

<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Ag 1	Soils, 2 †2	3	Ag 16	Forage and Pasture	
An 21	Livestock Feeding, 3 †2 ...	4		Crops, 1 †2	2
Bc 1	Organic Chemistry, 2 †2 ..	3	Bc 2	Biochemistry, 3 †4	5
Dh 1	General Dairying, 2 †2	3	Fm 48	Agricultural Economics ..	3
En 21	General Entomology, 2 †4 .	4	Ph 2	Incubation and Brooding,	
Mt 3	Military, †3	2		2 †2	3
Pt 3	Physical Education, 2	0	Mt 4	Military, †3	2
			Pt 4	Physical Education, 2 ..	0
				Elective	4
		<hr/> 19			<hr/> 19

Junior Year

FALL SEMESTER			SPRING SEMESTER		
<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
An 35	Anatomy of Domestic Animals, 2 †2.....	3	Ag 6	Fertilizers	2
Bt 45	General Genetics	3	An 36	Physiology of Domestic Animals	3
By 1	Bacteriology, †6	3	By 52	Bacteriology, 1 †4.....	3
By 3	Bacteriology	2	Ph 22	Poultry Breeding.....	2
Eh 5	Technical Composition....	2		Elective	8
Ph 3	Exhibition and Production Judging, 1 †2.....	2			
	Elective	3			
		<hr/> 18			<hr/> 18

Senior Year

<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Ag 35	Drainage and Land Reclamation, 2 *3.....	3	Fm 52	Farm Accounting, 1 *6..	3
Fm 89	Marketing Poultry Products	2	Ph 26	Poultry Farm Management, 1 †2.....	2
Ph 25	Poultry Feeding.....	2	Ph 40	Poultry Diseases.....	2
Ph 53	Seminar	1	Ph 54	Seminar	1
	Elective	10		Elective	10
		<hr/> 18			<hr/> 18

CURRICULA IN FORESTRY

Two curricula are offered in the Forestry Department, both leading to the degree of Bachelor of Science. Courses offered during the first year in either of these curricula are the same.

**Curriculum for the Freshman Year for All Students Taking
Four-Year Curricula in the Department of Forestry**

FALL SEMESTER			SPRING SEMESTER		
<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Ch 1	General Chemistry, 2 †4...	4	Bt 2	General Botany, 2 †4....	4
Eh 1	Composition	3	Ch 2	General Chemistry, 2 †4.	4
Fy 1	Elements of Forestry.....	2	Eh 2	Composition	3
Md 1	Fund. of Drafting, †4.....	2	Fy 2	Elements of Forestry....	2
Ms 9	Trigonometry and its Applications	2	Md 2a	Drafting, †4.....	2
Mt 1	Military, †3.....	1½	Ms 10	Trigonometry and its Applications	2
Zo 1	General Zoology, 2 †4....	4	Mt 2	Military, †3	1½
Fy 47	Orientation, 1.....	0	Fy 48	Orientation, 1.....	0
Pt 1	Physical Education, 2.....	0	Pt 2	Physical Education, 2... 0	
		18½			18½

CURRICULUM IN FORESTRY

A four-year undergraduate curriculum in Forestry is offered. In addition five courses from this undergraduate curriculum are open for graduate credit to students majoring in other curricula. A limited number of graduate students will be accepted for graduate work upon completion of the four-year curriculum or its equivalent at another university. The Forestry curriculum follows. It is arranged to meet the requirements of the profession of forestry for forestry instruction in the United States. Completion of the curriculum leads to the degree of Bachelor of Science. It will enable the graduate to qualify for technical and administrative positions in the profession, and will admit to advanced standing in postgraduate schools of forestry if further and more advanced work is desired. It will also render a student eligible for the Civil Service examinations for the position of Junior Forester in the United States Forest Service, and other Federal bureaus employing foresters. Owing to the wide field covered by the curriculum, it offers an excellent basis for a broad and liberal education.

The first two years are devoted very largely to fundamental and pre-technical subjects which are basic for a proper understanding of the more highly specialized work in technical subjects during the last two years. Instruction in the department consists of lectures, recitations, laboratory and field work, the latter consuming a considerable portion of the scheduled time.

A course of six weeks' practical experience is required of all men in the summer between the sophomore and junior years. This work is offered where students are enabled to observe large forest areas under permanent management, and large private manufacturing plants specializing in the utilization of various kinds of forest products. A second course of eight weeks' practical experience is required of all seniors at camps, owned and operated by the Forestry Department, located on Indian Township, near Princeton, Maine.

Sophomore Year

FALL SEMESTER			SPRING SEMESTER		
<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Ag 5	Soil Formation and Conservation	3	Bt 34	Forest Botany, 2 *3.....	2
Bt 33	Forest Botany (Dendrology), 2 †4.....	4	Eh 10	Modern Literature.....	2
Ce 1	Plane Surveying	2	En 22	Forest Entomology, 2 †4..	4
Ce 3	Field Work and Plotting, *9.....	3	Es 2b	Principles of Economics..	2
Es 1b	Principles of Economics..	2	Fy 4	Administration and Protection	4
Fy 3	Logging	2	Fy 14	Forest Products	2
Mt 3	Military, †3.....	2	Mt 4	Military, †3.....	2
Pt 3	Physical Education, 2.....	0	Pt 4	Physical Education, 2... 0	
		<hr/> 18			<hr/> 18

Summer Course

<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Ce 7s	Highways and Railroads, *16	2
Fy 35s	Silvics, *16.....	2
Fy 37s	Forest Mensuration, *8 ..	1
Fy 39s	Forest Products, *8.....	1

Junior Year

FALL SEMESTER

SPRING SEMESTER

<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Ag 3	Soils (Forest), 2 *3.....	3	Fy 6	Forest Mensuration, 2 *3..	3
Bt 35	Plant Anatomy, 2 †4.....	4	Fy 8	Silviculture, 3 *3.....	4
Eh 5	Technical Composition....	2	Fy 10	Nursery Practice, last	
Fy 5	Forest Mensuration, 2 *3..	3		9 weeks, *6.....	1
	Elective	6		Elective	11
		<hr/>			<hr/>
		18			19

Senior Year

<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
	First 9 weeks		Bt 42	Forest Pathology, 2 †4..	4
Fy 7	Lumber Manufacture.....	2	Fy 16	Wood Technology, 2 *3..	3
Fy 9	Wood Preservation.....	1	Fy 52	Policy and Economics...	4
Fy 51	Regional Silviculture.....	2	Fy 56	Forest Management.....	2
Fy 53	Forest Finance, 3 †2.....	2		Elective	6
Fy 55	Forest Management.....	2			
	Last 9 weeks				
Fy 41	Practice of Forestry, *48..	9			
		<hr/>			<hr/>
		18			19

CURRICULUM IN WILDLIFE CONSERVATION

A four-year undergraduate curriculum is offered in Wildlife Conservation and a limited number of graduate courses are available to students with sufficient undergraduate background. The four-year undergraduate curriculum in the first year is the same as that for Forestry.

This curriculum is arranged to cover a wide field of activities including the management of all types of game, waterfowl, fish and fur bearers on Federal, state, and privately owned land. It includes basic training in the artificial propagation of fish and game, and conservation of non-game species.

This curriculum prepares men for management and extension work in Federal and state departments concerned with the utilization of natural resources, for teaching in colleges and universities, and for research and experimental work in Federal, state, and college experiment stations. Graduates

are eligible for Civil Service examinations prepared by the Federal Government.

The first two years are devoted largely to fundamental and pretechnical subjects which are basic for the applied courses offered in the last two years. A course of six weeks' practical experience is required of all undergraduates between the sophomore and junior years. This work is offered where forest areas are being operated under a system of wildlife management.

Sophomore Year

FALL SEMESTER			SPRING SEMESTER		
<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Bt 33	Forest Botany (Dendrology), 2 †4.....	4	Bc 4	Organic Chemistry, 3 †2	4
Ce 1	Plane Surveying	2	Bt 36	Taxonomy, 2 †4.....	4
Ce 3	Field Work and Plotting, *9.....	3	En 26	Entomology, 2 *3.....	3
Fy 13	Forest Protection.....	2	Mt 4	Military, †3.....	2
Mt 3	Military, †3.....	2	Ph 4	Incubation and Brooding of Game Birds, 1 †2....	2
Zo 9	Ichthyology, 2 †4.....	4	Zo 10	Ornithology, 2 †4.....	4
Pt 3	Physical Education, 2.....	0	Pt 4	Physical Education, 2....	0
		<hr/> 17			<hr/> 19

Summer Course

<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Fy 35s	Silvics, *16.....	2
Fy 37s	Forest Mensuration, *8..	1
Fy 45s	General Ecology, *24...	3
		<hr/> 6

Junior Year

<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Bc 41	Biochemistry	3	By 2	Bacteriology, †6	3
Bt 41	Biotic Relationships, 2 *3.	3	Eh 6	Technical Composition ..	2
Bt 45	Genetics	3	Fm 48	Agricultural Economics...	3
By 3	Bacteriology	2	Fy 8	Silviculture, 3 *3.....	4
Zo 13	Mammalogy, 2 †4.....	4	Fy 10	Nursery Practice, *6....	1
	Elective	4	Zo 14	Animal Parasitology, 2 *3	3
		<hr/> 19		Elective	3
					<hr/> 19

Senior Year

FALL SEMESTER			SPRING SEMESTER		
<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
	First 9 weeks		Fy 52	Policy and Economics	4
An 39	Disease and Parasite		Zo 20	Fish Management, 2 *3	3
	Control (in Wildlife), 3 *3	2	Zo 22	Animal Ecology	3
Fy 55	Forest Management	2		Elective	9
Fy 57	Game Management	2			
Zo 19	Fish Management	1			
Zo 21	Animal Ecology	1			
	Last 9 weeks				
Fy 41	Practice of Forestry, *48	9			
		<hr/> 17			<hr/> 19

CURRICULA IN HOME ECONOMICS

The Department of Home Economics offers curricula based on a consideration of the problems of the contemporary home and responsibilities of the modern home maker. The basic curriculum requires foundation work in the physical and social sciences and Home Economics courses applying these sciences to problems of the home. In addition the student is required to complete a sequence of sixteen or more hours based on interest in a specialized subject-matter field or in a particular vocation. These sequences are listed below. As it is impossible in the limited time of classroom and laboratory to develop to a point of skill all the techniques necessary to success in a vocation, the student is expected to make provision during her vacations, or during the school year, for developing the kinds and degrees of skill essential to beginning the vocation she has selected.

Each curriculum includes in its total of 128 hours, 16 to 37 hours of electives in any department of the University for which the student is adequately prepared. At least half of the total program must be in courses other than those essentially technical or professional.

Basic Curriculum in Home Economics

Required of all students majoring in the department.

Freshman Year

FALL SEMESTER			SPRING SEMESTER		
<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
Ch 5	Inorganic Chemistry, 2 †4.	4	Bc 4	Organic Chemistry, 3 †2.	4
Eh 1	Composition	3	Eh 2	Composition	3
Gc 1	Intro. to Soc. Sci.....	3	Gc 2b	Intro. to Soc. Sci.....	3
He 1	Intro. to Home Economics	3	He 2	Clothing Selection	
He 3	Design, 1 †4.....	3		Problems, 2 †2.....	3
Pe 1	Physical Education, 2.....	0	He 14	The Pre-School Child...	3
			Pe 2	Physical Education, 2...	0
		<hr/> 16			<hr/> 16

Sophomore Year

<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
He 5	Foods, 2 †4.....	4	He 6	Foods, 2 †4.....	4
Py 1	General Psychology, 2 †2.	3	Py 2	General Psychology, 2 †2	3
	Sequence and Elective.....	9	Zo 12	Human Physiology, 3 †4	5
Pe 3	Physical Education, 2.....	0		Sequence and Elective.....	4
			Pe 4	Physical Education, 2...	0
		<hr/> 16			<hr/> 16

Junior Year

<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
By 3	Bacteriology	2	By 10	Sanitation	2
By 5	Bacteriology, †2.....	1	He 10	Home Care of Sick.....	1
Sy 1	General Sociology	3	He 4	The House, 2 †2.....	3
	Sequence and Elective.....	10		Sequence and Elective.....	10
		<hr/> 16			<hr/> 16

Senior Year**FALL SEMESTER****SPRING SEMESTER**

<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>	<i>No.</i>	<i>Subject</i>	<i>Cr. Hours</i>
He 11	Household Manage-		He 12	Senior Survey.....	1
	ment	2	*He 22	Household Admin.....	3
Ee 5a	Household Equipment....	3	He 54	Family Econ. Problems	3
	Sequence and Elective.....	11		Sequence and Elective.....	9
		<hr/> 16			<hr/> 16

* May be taken in the fall as He 21.

Sequences**Home Economics Education. 35-37 hours.**

This sequence fulfills the requirements for State certification of junior and senior high-school teaching of Home Economics and of certain science courses, and qualifies the student to receive, after a year of successful teaching experience, the vocational certificate which makes her eligible to teach in those schools which offer vocational programs with Federal support. Students who are accepted for Course 75 (76), and complete it successfully, qualify for the vocational certificate without further experience.

Requirements are as follows:

Bc 5	Biochemistry	4
Ed 65 (66)	Educational Measurements	3
He 7; 8 (8a)	Clothing Construction Problems	2-4
He 45 (46)	Advanced Clothing Construction	2
He 47 (48)	Fundamentals of Costume Design	1
He 49 (50)	Clothing Patterns	2
He 51	Clothing Economics	1
He 56	Home Economics Education	3
He 57a	Food Preservation	1
He 57b	Demonstrations	1
He 63	Nutrition	2
He 66	Dietetics	2
He 71 (72)		
a or b	Supervised Teaching	2

*He 73, 74	Supervised Field Teaching	4
He 78	Advanced Home Economics Ed.	2
He 85 (86)	School Lunch	1
Pb 1 (2)	Public Speaking	2

* He 75 (76) Apprentice Teaching, may be substituted by permission.

There is a demand for teachers prepared and certified to handle other high-school subjects in combination with Home Economics. Students who take this sequence are advised that it may be wise to choose their electives, in order to prepare themselves for certification in an additional subject. Pj 1, Pj 2, Pj 4, Summer Project, and He 18 Applied Design are also recommended.

Extension Teaching. 30-32 hours.

This sequence prepares the student for work as a home demonstration agent or a 4-H Club agent.

Bc 5	Biochemistry	4
Eh 28	Departmental or Feature Writing	3
He 7; 8 (8a)	Clothing Construction Problems	2-4
He 45 (46)	Advanced Clothing Construction	9
He 47 (48)	Fundamentals of Costume Design	1
He 49 (50)	Clothing Patterns	2
He 51	Clothing Economics	1
He 52	Draping	2
He 56	Home Economics Education	3
He 57a	Food Preservation	1
He 57b	Demonstration	1
He 63	Nutrition	2
He 65	Dietetics	2
He 81	Institutional Foods	3
Pb 1 (2)	Public Speaking	2

Further work in home economics, especially in institutional foods and in clothing; in education; in journalism; and in the social sciences is strongly recommended. Since 25 hours of this sequence is identical with the teaching sequence, and since either field is good experience for the other, students often combine this with the Home Economics Education sequence.

Food and Nutrition. 22 hours.

This sequence is offered for students preparing for positions as hospital dietitians, Red Cross nutritionists, research workers in foods and nutrition, or home economists in commercial foods work. It meets the requirement of the American Dietetics Association for admission to student dietitianship in hospitals offering a Class A training course.

Bc 5	Biochemistry	4
*Bc 53 or 60	Biochemistry	3
Ed	Education	3
He 63 (64)	Nutrition	2
He 65	Dietetics	2
*He 68	Nutrition in Abnormal Conditions	2
*He 81, 84, 87	Institutional Management	6

*For students preparing for commercial foods positions or for research, appropriate substitutes may be made for starred courses.

Textiles and Clothing. 19-21 hours.

For students interested in the clothing, textile, or decoration field, as designers, buyers, or advertising copy writers.

He 7, 8 (8a)	Clothing Construction Problems	2-4
He 17 (18)a	Applied Design	2
He 43 (44)	House Furnishing	3
He 45 (46)	Advanced Clothing Construction	2
He 51	Clothing Economics	1
He 52	Draping	2
He 61	History of Costume	1
*He 91, 92	Costume Design	6

*Appropriate substitutions may be made for starred courses.

Students who select this sequence are advised to include as electives courses in psychology, public speaking, theatre, French, art history, history, and journalism.

Child Development. 20 hours.

For students preparing for work in the rapidly expanding fields of nursery school and parental education.

Bc 5	Biochemistry	4
He 57c (58c)	Nursery School Meals	1
He 59 (60)	Special Problems in Child Development	2
He 63 (64)	Nutrition	2
He 65	Dietetics	2
Py 67, 71, 72, 81	(Six hours selected)	6
Sy 81	Marriage and The Family	3

Students are advised to include courses in public speaking, in the appreciation of art and music, and additional zoology, English, education, and sociology. Arrangements are made for two students each year to do one semester's work in this field at the Merrill-Palmer School, Detroit, Michigan. The work will be accepted as applying on basic and sequence requirements.

General Home Economics

For students who wish an adequate basic training in home economics, but are not interested in organizing their programs about the requirements of any paid vocations.

Sixteen hours of advanced home economics courses in addition to those required in the basic curriculum.

Other Sequences

For students whose vocational needs are not met by these sequences, others may be arranged. They will consist of selected advanced Home Economics courses and related work in other departments.

Special Students in Agriculture

Persons not candidates for a degree who desire to take special studies may be permitted to do so, if, upon examination, they give satisfactory evidence that they are prepared to pursue them. This privilege is intended only for students of unusual maturity (at least twenty-one years of age) or previous advancement in particular subjects, and not for those who are incompetent

COLLEGE OF AGRICULTURE

to pursue a regular course. If they subsequently desire to become candidates for a degree, they will be required to meet all the entrance requirements.

The annual expenses for courses of one year or more are the same as those for students in the four-year curricula.

TWO-YEAR COURSE IN AGRICULTURE

This is a course of training for young men who wish to become practical farmers, farm superintendents, dairymen, poultrymen, fruit-growers, or gardeners, but who cannot devote time to full high-school or college training. It is also open to women.

The same equipment is used as in the four-year curricula, but the work is more elementary in nature. Most of the classes are separate and distinct from the four-year classes.

Students who have satisfactorily completed two years of high-school work are eligible for registration.

There are no entrance examinations required of those who desire to enter the Two-Year Course.

On completion of the course a certificate is awarded those who have satisfactorily met the requirements.

Curriculum for Two-Year Course in Agriculture

First Year

FALL SEMESTER		SPRING SEMESTER	
<i>Subject</i>	<i>Hours</i>	<i>Subject</i>	<i>Hours</i>
Animal Husbandry, 2 †2	3	Carpentry, †4	2
*Business Arithmetic	2	Dairy Husbandry, 2 †4	4
Farm Botany, 1 †2	2	English	2
Farm Chemistry	2	Farm Economics	2
Farm Crops, 2 †2	3	Fruit Growing, 2 †2	3
Forge Work, *3	1	Poultry Husbandry, 2 †2	3
*Fruit Handling, 2 †2	3	Soils and Fertilizers, 3 *3	4
*Potato Production, 2 †2	3		
Poultry Husbandry, 2 †2	3		
<hr/>		<hr/>	
19 or 20		20	

*Two of these three subjects to be elected with approval of the Director of Short Courses.

Second Year

FALL SEMESTER		SPRING SEMESTER	
<i>Subject</i>	<i>Hours</i>	<i>Subject</i>	<i>Hours</i>
Animal Husbandry, 2 †2.....	3	Animal Husbandry, 3 †2.....	4
Diseases of Farm Animals.....	3	English	2
English	2	Farm Crops, 2 †2.....	3
Farm Engineering and Mechanics, 2 *3.....	3	Farm Machinery, 2 *3.....	3
Farm Insects, 1 †2.....	2	Forestry (Fy 20).....	2
Farm Management, 2 *3.....	3	Marketing Farm Products.....	3
Poultry Management.....	2	Small Fruit Culture and Plant Propagation, 2 †2....	3
Vegetable Growing, 2 †2.....	3		
	<hr/> 21		<hr/> 20

A description of subjects offered will be found on page 159.

SHORT COURSES IN THE COLLEGE OF AGRICULTURE

Short courses are offered to the large number of young men and women and adults who are engaged or about to engage in agricultural or homemaking pursuits and who desire to devote a short time during the winter months to the securing of definite instruction along the line of their special interests.

Courses of three weeks' duration are available in Dairy Production, Poultry Raising, Potato Production, and other subjects. Courses of shorter duration in other specialized subjects are also available.

Applicants for admission must be at least sixteen years of age and have had a good common-school education. Information concerning short courses may be secured by addressing the Director of Short Courses, College of Agriculture.

FARM AND HOME WEEK

There are a large number of people who cannot come to the college for a great length of time, but who desire a few days of practical instruction. To reach and accommodate these, "Farm and Home Week" is held. Lectures on practical agricultural subjects are given morning, afternoon, and evening. Practical demonstrations occupy a part of each afternoon. Besides the practical subjects discussed, one or more sessions are given up to problems of rural betterment. Considerable emphasis is placed on agricultural marketing

problems peculiar to Maine. The homemaking program includes the various phases of home management and is of interest to both rural and urban homemakers. Dates and programs may be secured each year by addressing the College of Agriculture.

THE EXTENSION SERVICE

The Extension Service is organized as a department of the College of Agriculture. It operates under the provisions of the Smith-Lever and Capper-Ketcham Acts, receiving its funds from State and Federal sources.

Its personnel is made up of two groups of agents. One group, the County Extension Agents, consists of agricultural agents, home demonstration agents, and club agents, having their headquarters within the counties in which they serve. The other group, The State Agent force, consists of a limited number of specialists and leaders having their headquarters at the University but working with and assisting the County Extension Agents.

The Extension Service, through these men and women, gives direct assistance to people living on the farms and in the rural and urban homes of this state. The Farm Bureau, an organization having a membership of more than 10,000 men and women, coöperates with the Extension Service in the determination and development of its county and community programs of work.

Extension Lecture Courses

Lectures in these courses are given under the auspices of granges, clubs, societies, and other gatherings by the members of the agricultural faculty.

A complete list of the lectures will be forwarded on request.

Correspondence Service

It is recognized that a letter is a poor substitute for a personal conference in dealing with perplexing problems with which people are constantly confronted in the vocations of agriculture, forestry, and home economics, but the teachers in all departments of the College are always ready to furnish information dealing with these problems and thus render the greatest possible service to the people of the State. The College of Agriculture, therefore, welcomes inquiries on practical agricultural, forestry, and home economics topics. Extension bulletins dealing with different phases of these subjects are published at frequent intervals throughout the year and will be sent without cost to persons applying for them. A list of bulletins and circulars available for distribution will be forwarded on request.

Departments of Instruction

NOTE.—A star (*) before the time designated for a course indicates that three or sometimes more hours of actual work are required to obtain credit for one hour; a dagger (†) indicates that two hours are required to obtain this credit.

Courses designated by an odd number are given in the fall semester; those designated by an even number, in the spring semester.

When a course is offered in the first semester and also repeated in the second, it is designated by two numbers, the second of which is in parenthesis.

Two-semester courses designated with a period between the two numbers (e.g., 1. 2) may be taken either semester; when a semicolon appears between the two number (e.g., 1; 2), the first semester is prerequisite to the second; and when a dash appears between the two numbers (e.g., 1-2), both semesters must be taken to obtain credit.

Courses numbered 1-50 are for undergraduates only; courses numbered 51-100 are for graduates and undergraduates; courses numbered above 100 are primarily for graduates.

AGRICULTURAL ECONOMICS AND FARM MANAGEMENT

PROFESSOR MERCHANT; PROFESSOR JONES; ASSOCIATE PROFESSOR DOW;
ASSISTANT PROFESSOR NIEDERFRANK

48. *Agricultural Economics.*—An introductory course in the principles of economics as applied to agriculture. Consideration given to the development of commercial agriculture, price-making forces, production factors, land policy, land tenure, foreign trade, taxation, credit, marketing, and farm management. This course is intended to give a broad foundation training in this subject. *Three hours a week. Three credit hours.*

MR. JONES

52. *Farm Accounting.*—All forms of farm records; farm inventories, cash accounts, single-enterprise cost accounts, complete farm-cost accounting system, and miscellaneous records. Special emphasis is given to the interpretation of results and their practical application in the management of farms. Classroom, *one hour a week*; laboratory, **six hours a week. Three credit hours.*

MR. JONES

62. Agricultural Business Accounting.—This course includes accounting methods for different types of farm business organizations, such as coöperative marketing associations, creameries, cheese factories, Grange stores, and other similar organizations. Classroom, *two hours a week*; laboratory, **three hours a week*. *Three credit hours*. MR. NIEDERFRANK

65. Forest Accounting.—This course includes accounting methods for the different types of logging and lumbering operations. It involves problems in cost and income factors, and profit and loss statements of various kinds of forest operations. Classroom, *two hours a week*; laboratory, **three hours a week*. *Three credit hours*. MR. NIEDERFRANK

73. Advanced Agricultural Economics.—An advanced course in some of the more important economic problems facing agriculture, such as effects of various governmental policies, agricultural relief, production control, protective tariff, foreign trade and competition, agricultural organization, tenancy, and similar problems. Prerequisite, Course 48. *Two hours a week*. *Two credit hours*. MR. JONES

74. Farm Management.—Farming as a business; size of business; balance; production rates; labor efficiency; crop rotations; machinery; farm layout; building arrangement; choosing and buying a farm; ways of starting to farm; and study of farm organization and management of specific farms in the vicinity. Classroom, *three hours a week*; laboratory, **three hours a week*. *Four credit hours*. MR. JONES

75. Agricultural Statistics.—Course consists of practical problems in frequency distribution; averages; measurements of dispersion; measurements of trends; seasonal variations and cyclical fluctuations; simple index numbers; simple linear and non-linear correlations; and standard and probable errors. Classroom, *one hour a week*; laboratory, **six hours a week*. *Three credit hours*. MR. MERCHANT

76. Agricultural Marketing.—The first part of the course deals with the economic principles of the present marketing structure and its operation. The latter part involves the study of distribution and marketing of potatoes, apples, wheat, wool, hay, peaches, tobacco, truck crops, dairy products, poultry and poultry products, beef cattle, sheep, and hogs. *Three hours a week*. *Three credit hours*. MR. MERCHANT

77. Agricultural Finance.—The farmers' credit needs are considered. Sources of credit available to farmers and conditions under which loans are made. Special attention is given to the study of the Farm Credit Administration, banks, and individual creditors, as they affect credit condi-

tions in the various farming sections of Maine. *Two hours a week. Two credit hours.* MR. MERCHANT

***78. Marketing Potatoes.**—A specialized course in the marketing of potatoes emphasizing trends in production, regional competition, grades, containers, storage, transportation, sale methods, and price relationships. *Three hours a week. Three credit hours.* MR. LIBBY

79. Cooperation in Agriculture.—Principles involved in coöperative organizations including the more important factors affecting the efficiency and success of coöperative organization, such as volume of business, capital and finance, management, and price policies. The history, organization, and management of coöperative associations marketing the more important agricultural products. *Three hours a week. Three credit hours.*

MR. NIEDERFRANK

83-84. Thesis.—A thesis may be written on any problem in agricultural economics, farm management, marketing, agricultural finance, agricultural statistics, or agricultural prices. Prerequisite, permission to register. *Credit, arranged.* MEMBERS OF THE DEPARTMENTAL STAFF

85. Marketing Dairy Products.—A specialized course considering the marketing of dairy products, with special emphasis on milk and cream in New England. Factors to be studied include production areas; utilization of milk; grades; transportation; storage; market channels; sales methods; prices; government regulation; foreign trade; demand; and city distribution. *Three hours a week. Three credit hours.* MR. DOW

86. Agricultural Marketing (Apples and Small Fruits).—A specialized course in the economic factors involved in marketing apples and small fruits with special emphasis on New England. The topics considered are production, varieties, regional competition, grades, containers, storage, transportation, finance, sales methods, and the costs of marketing. *Two hours a week. Two credit hours.* MR. NIEDERFRANK

87. Agricultural Prices.—The underlying factors causing price changes in agricultural commodities, effects of inflation and deflation, interrelationship of supply and prices, long-time trends, seasonal variation, cyclical movements, agricultural price-raising measures. *Three hours a week. Three credit hours.* MR. JONES

89. Marketing Poultry Products.—A specialized course in the economic factors involved in the marketing of eggs and poultry. Special con-

* A description of this course also appears under the Department of Agronomy and Agricultural Engineering.

sideration will be given to areas of production; grades; containers; transportation; storage; market channels; sales methods; foreign trade; demand; price; Federal participation; and costs of marketing. *Two hours a week. Two credit hours.* MR. DOW

91. Land Utilization.—Utilization of the land area for various purposes, such as for agriculture, forestry, recreation, and industry, giving primary attention to agriculture. Physical factors and economic conditions determining utilization of farm land, production areas for important farm commodities, shifts taking place in these areas, trends in population and consumption, land classification, land values, and land policy. Land utilization programs. *Three hours a week. Three credit hours.* MR. JONES

92. Rural Tax Problems.—National, state, and local problems connected with rural taxation. The effect of increased tax burdens on farmers. Growth of public expenditures; sources of public revenues; the general property tax and its administration. How income, inheritance, and gasoline taxes affect farmers. Tax reform proposals. Problems involved in an equitable distribution of the tax burden. *Two hours a week. Two credit hours.* MR. JONES

101. Production Costs.—Cost of producing important farm commodities in Maine and in competing areas; relation of cost of production to price; and efficiency of production under varying economic conditions. Prerequisite, Course 52. *Two hours a week. Two credit hours.* Additional credit may be arranged for special problems done in connection with this course. MR. JONES

102. Advanced Agricultural Statistics.—A continuation of Course 75 giving special attention to the methods and practical application of correlation analysis involving two or more variables, multiple correlation, and linear and curvilinear relationships. Prerequisite, Course 75, and permission to register. *Credit, arranged.* MR. DOW

103. Advanced Farm Management.—A continuation of Course 74 with special emphasis on the organization and management of specified types of farms under certain economic conditions, farm prices, and labor efficiency. The student is given an opportunity for study along some line in which he has a special interest. Prerequisite, Course 74. *Credit, arranged.* MR. JONES

104. Advanced Agricultural Marketing.—Advanced work in the marketing of a specific agricultural commodity. Special emphasis is given to marketing potatoes, apples, poultry, eggs, milk, butter, and cheese. Problem method is followed. Prerequisite, permission to register. *Credit, arranged.* MR. MERCHANT

125. Graduate Thesis.—*Credit, arranged.* MR. MERCHANT

Rural Sociology

***24. Rural Sociology.**—A general course in the study of rural life. Subjects to be considered are: standard of living and welfare of rural people; rural population; farm tenancy; the town and village; rural organizations and rural leadership; and the probable sociological effect of the adjustment of agricultural production, soil conservation, resettlement and other governmental measures on rural life. *Three hours a week. Three credit hours.*

MR. NIEDERFRANK

AGRICULTURAL EDUCATION

PROFESSOR HILL; ASSISTANT PROFESSOR ELLIOTT

1. 2. Practice Teaching.—Both majors and minors in agricultural education are expected to do directed teaching in an approved school, either during or at close of the spring semester of the junior year; or immediately preceding or during the fall semester of the senior year; or during the spring semester of the senior year. *Time and credit arranged. Total credit, four hours.*

MR. HILL, MR. ELLIOTT

3. 6. Special Methods in Teaching Agriculture.—State and Federal legislation; the curriculum; teaching methods and lesson plans; building the course of study; making teaching plans for the year; rooms and equipment; part-time and evening school work; Future Farmers of America; long-time and annual programs of work; reviews, examinations, grades; classroom management. *Two hours a week. Two credit hours.*

MR. HILL, MR. ELLIOTT

5. Supervised Farm Practice.—Requirements for supervised farm practice; its importance; selection of projects; project plans; project records; project supervision; long-time supervised farm practice programs; project budgeting; giving credit for supervised farm practice; project contests. *Two hours a week. Two credit hours.*

MR. HILL, MR. ELLIOTT

8. Methods of Teaching Farm Shop.—A course in methods for teachers of vocational agriculture stressing importance of meaning, aims, and purposes; choosing type of shop; tools and equipment; determining how to organize shop; shop texts and references; content of courses; organizing the course content. *Two hours a week. Two credit hours.*

MR. HILL, MR. ELLIOTT

* A description of this course also appears under the Department of Economics and Sociology.

101s. Current Problems in Agricultural Education.—Analysis and study of one or more special problems in agricultural education with special reference to the time limits. *One to three credit hours.* MR. HILL

AGRONOMY AND AGRICULTURAL ENGINEERING

PROFESSOR CHUCKA; ASSISTANT PROFESSOR SWIFT; ASSISTANT PROFESSOR RALEIGH; ASSISTANT PROFESSOR LIBBY; ASSISTANT PROFESSOR MEYER

Soils and Fertilizers

1. Soils.—Origin, types, physical and chemical properties of soils and their relation to crop production. Classroom, *two hours a week*; laboratory, *†two hours a week.* *Three credit hours.* MR. LIBBY

3. Soils (Forest).—Origin, types, physical and chemical properties of soils as related to forests. Classroom, *two hours a week*; laboratory, **three hours a week.* *Three credit hours.* MR. SWIFT

5. Soil Formation, Erosion, and Conservation.—Soil-forming rocks and minerals, agencies involved in soil formation; causes, types, and extent of soil erosion; principles and methods of soil conservation. Classroom, *three hours a week.* *Three credit hours.* MR. CHUCKA

6. Fertilizers.—Source, composition, and properties of fertilizer materials as related to composition, cost, methods of application, and general use of commercial fertilizers in crop production. Prerequisite, Course 1 or 3. Classroom, *two hours a week.* *Two credit hours.* MR. CHUCKA

51. Soil Fertility.—Principles involved in the improvement and maintenance of soil fertility through the use of lime, stable manures, green manures, and commercial fertilizers. Prerequisite, Course 1 or 3. Classroom, *two hours a week.* *Two credit hours.* MR. CHUCKA

52. Soil Classification, Surveying, and Mapping.—Theories, methods, and uses of soil classification, surveying, and mapping. Prerequisite, Course 1 or 3. Classroom, *two hours a week*; laboratory, **three hours a week.* *Three credit hours.* MR. SWIFT

54. Soil Analysis.—Principles, methods, and practical value of the various field and laboratory methods of soil analysis. Prerequisites, Courses 1 and 6. Classroom, *one hour a week*; laboratory, *†four hours a week.* *Three credit hours.* MR. CHUCKA

Crops

11. Field Crops.—A course dealing with the principal field crops of the United States with special reference to crops important in New England. Consideration is given to general culture, use, and their adaptation. Classroom, *two hours a week*; laboratory, *†two hours a week*. *Three credit hours*.

MR. RALEIGH

13. Weed Identification and Control.—Characteristics of weeds, their sources, method of reproduction, dissemination, migration, and methods of control. Prerequisites, Course 11 and Botany 2. Laboratory, *†four hours a week*. *Two credit hours*.

MR. RALEIGH

14. Sweet Corn, Beans, and Peas.—The production of sweet corn, beans, and peas for canning purposes. Classroom, *one hour a week*; laboratory, *†two hours a week*. *Two credit hours*.

MR. RALEIGH

15. Potato Production.—A general study of all factors involved in the production of potatoes. Varieties, seed selection, preparation of land, planting, fertilization, spraying, harvesting, and storing. Classroom, *two hours a week*; laboratory, *†two hours a week*. *Three credit hours*.

MR. LIBBY

16. Forage and Pasture Crops.—Grasses, legumes, and root crops, their management and uses for forage and pasture. Prerequisite, Course 11. Classroom, *one hour a week*; laboratory, *†two hours a week*. *Two credit hours*.

MR. RALEIGH

17s. Field Work in Seed Potato Production.—Two-week summer course designed to give those students interested in seed potato production special applied instruction in the identification of important potato diseases and insects. This course to be held at the Maine Agricultural Experiment Station Farm at Presque Isle, early in July. Prerequisites, Course 15, and permission to register. **Forty-eight hours a week*. *Two credit hours*.

MR. LIBBY

60. Crop Improvement.—Principles and methods involved in field-crop improvement and methods of testing new varieties. Prerequisite, Botany 45. *Three hours a week*. *Three credit hours*.

MR. RALEIGH

62. Seed Potato Production.—A specialized study of the factors involved in seed potato production emphasizing selection of foundation seed stock, tuber unit planting, potato diseases, roguing, certification and development, and testing of new varieties. Prerequisite, Course 15. Classroom, *two hours a week*; laboratory, *†two hours a week*. *Three credit hours*.

MR. LIBBY

***78. Marketing Potatoes.**—A specialized course in the marketing of potatoes, emphasizing trends in production, regional competition, grades, containers, storage, transportation, sale methods, and price relationships. Prerequisite, Farm Management 48. *Three hours a week. Three credit hours.*

MR. LIBBY

Agricultural Engineering

30. Farm Machinery.—Construction, operation, care, and adjustment of farm machinery. Classroom, *two hours a week*; laboratory, **three hours a week. Three credit hours.*

MR. MEYER

33. Farm Structures.—Planning, designing, and the construction of farm buildings; water systems; heating systems; sewage disposal; and the use of concrete on the farm. Classroom, *two hours a week*; laboratory, **three hours a week. Three credit hours.*

MR. MEYER

34. Farm Shop.—Training in the care and use of tools and equipment for ordinary construction and repair work found necessary on the farm. *†Four hours a week. Two credit hours.*

MR. SWIFT

35. Drainage and Land Reclamation.—A course covering theory and field work in taping, leveling, plane table, compass, and transit work. The theory and design of terraces, open ditches, soil-saving structures, and tile drainage systems with field work in their layout. Classroom, *two hours a week*; laboratory, **three hours a week. Three credit hours.*

MR. MEYER

36. Farm Power.—Application of power to farm operations. The construction, operation, care, and adjustment of gas and electric motors and related equipment. Classroom, *two hours a week*; laboratory, **three hours a week. Three credit hours.*

MR. MEYER

41. School Shop.—Instruction in wood-tool fitting and operations; furniture repair and refinishing; and painting. Laboratory, *†two hours a week. One credit hour.*

MR. MEYER

42. School Shop.—Instruction in forge and cold metal work, and soldering. Laboratory, *†two hours a week. One credit hour.*

MR. SWIFT

43. School Shop.—Instruction in drawing, blue print reading, concrete work, plumbing, and surveying. Laboratory, *†two hours a week. One credit hour.*

MR. SWIFT

*The description of this course also appears under the Department of Agricultural Economics and Farm Management and should be registered for under the designation, Fm 78.

44. School Shop.—Instruction in electricity, farm machinery repair, power transmission, and harness repair. Laboratory, †two hours a week. One credit hour. MR. MEYER

Agronomy and Agricultural Engineering (General)

81. 82. Seminar.—Study of recent literature, problems and experiments pertaining to soils, crops, and agricultural engineering. One hour a week. One credit hour. MEMBERS OF THE DEPARTMENTAL STAFF

83. 84. Special Problems in Agronomy and Agricultural Engineering.—Credit, arranged. MEMBERS OF THE DEPARTMENTAL STAFF

125. Graduate Thesis.—Credit, arranged. MR. CHUCKA

ANIMAL INDUSTRY

PROFESSOR DORSEY; ASSOCIATE PROFESSOR CAIRNS; ASSISTANT PROFESSOR HALL; ASSISTANT PROFESSOR WITTER; MR. POPE; MR. OSBORNE

Animal Husbandry

2. General Animal Husbandry.—An introduction to Animal Husbandry. A general course covering the market types and classes of livestock, their economic importance and place in this region. Classroom, two hours a week; laboratory, †two hours a week. Three credit hours.

MR. CAIRNS, MR. HALL

21. Livestock Feeding.—A study of the principles of livestock feeding; livestock feeds and their values for the different classes of stock. The lecture includes a brief discussion on care and management. The laboratory work consists of the study of feeds and their composition; the use of feeding standards; and the computation of rations. Prerequisite, Course 2. Classroom, three hours a week; laboratory, †two hours a week. Four credit hours.

MR. CAIRNS

22. Dairy Cattle.—A production course dealing with the selection, breeding, care and management of a dairy herd. The laboratory will be devoted to practical problems and dairy cattle judging. Prerequisites, Courses 2 and 21. Classroom, two hours a week; laboratory, †two hours a week.

MR. CAIRNS

23. Beef Cattle and Horses.—A production course. One-half of the course is devoted to beef cattle, and the other half to horses. The selection,

breeding, feeding, care and management of the particular class of stock will be discussed in each half of the course. Prerequisites, Courses 2 and 21. *Two hours a week. Two credit hours.* MR. CAIRNS

24. Sheep and Swine.—A production course. One-half of the semester is devoted to sheep and the other half to swine. Selection, breeding, care and management of the particular class of stock will be discussed in each half of the course. Prerequisites, Courses 2 and 21. Classroom, *two hours a week*; laboratory, *†two hours a week. Three credit hours.* MR. CAIRNS

35. Anatomy of Domestic Animals.—A general course in comparative anatomy of the domestic animals and birds. Emphasis is placed on the important histological features, and those parts of the body involved in the common diseases. Classroom, *two hours a week*; laboratory, *†two hours a week. Three credit hours.* MR. WITTER

36. Physiology of Domestic Animals.—Principles of physiology as applied to domestic animals including birds. Special emphasis is placed on comparative features, especially of the circulatory, respiratory, digestive, and uro-genital systems. *Three hours a week. Three credit hours.* MR. WITTER

42. Advanced Livestock Judging and Management.—A laboratory course in which the individual student gets experience in handling livestock and preparation of stock for show ring and market. In so far as it is practicable, visits will be made to livestock farms. *†Two hours a week. One credit hour.* MR. HALL

55. Animal Nutrition.—The principles of nutrition, methods of experimentation, and the application of nutritional theories to practical feeding problems. Prerequisite, Course 21. *Two hours a week. Two credit hours.* MR. CAIRNS

57. 58. Problems in Animal Husbandry and Animal Pathology.—Open to qualified senior and graduate students. *Credit, arranged.* MR. CAIRNS, MR. WITTER

60. Animal Breeding.—A study of the physiology of reproduction; the principles and theories of breeding as applied in the livestock industry; study of pedigrees and records in the herd books. Open to senior and graduate students. Prerequisite, Course 25. Classroom, *two hours a week*; laboratory, **three hours a week. Three credit hours.* MR. HALL

63. 64. Seminar.—Preparation and presentation of papers dealing with topics in the field of Animal Husbandry. *One hour a week. One credit hour.* MR. CAIRNS, MR. HALL

65. Advanced Animal Industry.—A course dealing with the handling and preparation of livestock for market. A study of farm and packing house

methods of the slaughter of animals, and the cutting and curing of meats. Wherever possible, this actually will be done. Visits may be made to nearby abattoirs. Prerequisites, Courses 2 and 25. *Two hours a week. Two credit hours.* MR. HALL

125. Graduate Thesis.—Credit, arranged.

MR. CAIRNS

Animal Pathology

37. Animal Hygiene.—Principles of hygiene and sanitation applied to prevention and control of common diseases of domestic animals. Special attention given to the fundamentals of disease processes. Prerequisite, Course 36. *Two hours a week. Two credit hours.* MR. WITTER

38. Animal Pathology.—A study of infectious and parasitic diseases of domestic animals including the principles of immunology as applied to biological treatment and prevention. Prerequisite, Course 37. *Two hours a week. Two credit hours.* MR. WITTER

39. Disease and Parasite Control (In Wildlife).—A study of known infectious and parasitic diseases of game and fur-bearing animals, emphasizing preventive and control measures. First half-semester. Classroom, *three hours a week*; laboratory, **three hours a week. Two credit hours.* MR. WITTER

***40. Poultry Diseases.**—Principles of hygiene and sanitation applied to the prevention and control of the diseases of poultry, including a detailed consideration of the pathological processes involved in the common diseases. *Two hours a week. Two credit hours.* MR. WITTER

Dairy Husbandry and Dairy Technology

1. General Dairying.—Milk, its secretion, composition, properties, pasteurization, and separation. Dairy practices in producing and handling milk and cream. Dairy equipment; use of common dairy machinery. Testing dairy products for fat (Babcock method), acidity, total solids, and common adulterations. Classroom, *two hours a week*; laboratory, *†two hours a week. Three credit hours.* MR. DORSEY

2. Butter Making.—Creamery butter industry. Starter making, cream ripening, churning, and preparing butter for market. Prerequisite,

* The description of this course also appears under the Department of Poultry Husbandry, and should be registered for under the designation Ph 40.

Course 1. Classroom, *one hour a week*; laboratory, †*four hours a week*.
Three credit hours. MR. POPE

3. Cheese Making.—Manufacture and curing of various types of cheese, including cheddar and soft cheeses adapted to the New England trade. The laboratory work requires six consecutive hours. Prerequisite, Course 1. Classroom, *two hours a week*; laboratory, **six hours a week*. *Four credit hours.* MR. DORSEY

4. Condensed Milk.—Manufacture of unsweetened and sweetened condensed milk, and milk powder. Sanitary control of milk supply, factory methods, defects in products, and economic phases of the industry. Prerequisite, Course 1. Classroom, *two hours a week*; laboratory, **three hours a week*. *Three credit hours.* MR. DORSEY

5. Market Milk.—The market-milk industry from standpoints of production, supply, sanitary control, transportation, processing, delivery, organization, and economic aspects. Prerequisite, Course 1. Classroom, *three hours a week*; laboratory, **three hours a week*. *Four credit hours.* MR. POPE

6. Judging Milk and Milk Products.—Study and practice of methods employed in scoring and judging milk and milk products. Prerequisite, Course 1. †*Two hours a week*. *One credit hour.* MR. POPE

51. Dairy Technology.—Milk products and by-products, methods of manufacture and processing, and scrutiny of recent literature relating to advances in dairy technology. Lectures and assigned readings. Prerequisite, Course 1. *Two hours a week*. *Two credit hours.* MR. DORSEY

53. 54. Problems in Dairy Husbandry.—*Credit, arranged.*

MR. DORSEY

55. Dairy Refrigeration.—Principles of refrigeration, refrigeration machinery and equipment, and applications of refrigeration to milk and milk products. *Two hours a week*. *Two credit hours.* MR. DORSEY

58. Ice Cream Making.—Manufacture of ice cream and ices. Prerequisites, Courses 51 and 55. Classroom, *two hours a week*; laboratory, †*four hours a week*. *Four credit hours.* MR. DORSEY

61. 62. Dairy Technology Seminar.—Study of recent and current literature dealing with research problems and the industrial applications of research findings in the technological field of the dairy industry. For seniors majoring in Dairy Technology. *One hour a week*. *One credit hour.*

MR. DORSEY

63. Advanced Dairy Products Testing.—Testing milk and milk products by the Mojonnier method. Open to senior students in the Depart-

ment of Animal Industry. †*Two or four hours a week. One or two credit hours.* MR. DORSEY, MR. POPE

64. *Advanced Dairy Products Control.*—Approved methods of testing dairy products, chemical, physical, and bacteriological used for control purposes in the dairy industry and the practical application of such new tests as they are introduced. Prerequisite, Course 63. †*Four hours a week. Two credit hours.* MR. DORSEY

66. *Dairy Machinery.*—Milk and milk-products machinery, accessory machinery, and plant layout. Prerequisite, Course 51. †*Four hours a week. Two credit hours.* MR. DORSEY

125. *Graduate Thesis.*—*Credit, arranged.* MR. DORSEY

BACTERIOLOGY AND BIOCHEMISTRY

PROFESSOR HITCHNER; PROFESSOR SMITH; ASSISTANT PROFESSOR
HIGHLANDS; ASSISTANT PROFESSOR PEDLOW; MR. MUNDT;
MR. FRY

Bacteriology

1. *Bacteriology.*—A laboratory course in general bacteriology. Open to all students. The work includes the preparation of the usual culture media and study of morphological and biological characteristics of typical bacteria. Some outside reading is required. Course 3 must be taken in conjunction. †*Six hours a week. Three credit hours.*

MR. HITCHNER, MR. HIGHLANDS, MR. MUNDT

2. *Bacteriology.*—Similar to Course 1. Offered for students in the College of Technology and others who may elect it. Special emphasis is placed upon bacteriology of water and sewage. Prerequisite, Course 3. †*Six hours a week. Three credit hours.* MR. HIGHLANDS, MR. MUNDT

3. *Bacteriology.*—A lecture course open to all students. It must be elected by students taking Course 1. Subjects considered include: the history of bacteriology; classification and biological characteristics of bacteria; bacteria in air, water, soil, and dairy products; relation of bacteria to health and disease; and immunity. *Two hours a week. Two credit hours.*

MR. HITCHNER

5. *Bacteriology.*—An abbreviated laboratory course in general bacteriology. Practical demonstrations of the relation of bacteria to disease,

sanitation, food handling, and other economic phases are given. The aim is to develop appreciation of bacteriological technic. Course 3 must be taken in conjunction. †*Two hours a week. One credit hour.* MR. HIGHLANDS

10. Sanitation and Public Health.—General consideration of the relationship between the health of the individual and environment. Special emphasis placed on communicable diseases and their control. Sanitary programs for the home and community will be considered, such as sewage disposal, safe water supplies, industrial sanitation, and dust menaces. Prerequisite, Course 3. *Two credit hours.* MR. HIGHLANDS

52. Bacteriology.—Physiological, morphological, biochemical, and serological activities of bacteria; isolation and identification of pathogens together with animal inoculation and serological tests. Prerequisites, Courses 1 or 2, and 3. Classroom, *one hour a week*; laboratory, †*four hours a week.* *Three credit hours.* MR. HITCHNER

54. Bacteriology (Dairy).—Effect of pasteurization on milk bacteria; quantitative bacterial determination of butter and cheese; study of typical milk bacteria; use of special biochemic tests for quality of milk; and study of effect of separators, clarifiers, coolers, etc., on the bacterial content of milk and cream. Prerequisites, Courses 1 or 2, and 3. Classroom, *one hour a week*; laboratory, †*four hours a week.* *Three credit hours.* MR. HITCHNER

55. Bacteriology (Soil).—A theoretical and experimental consideration of the relationship of microorganisms and soil fertility. A study of the factors which influence the changes produced through microbial action. Prerequisites, Courses 1 or 2, and 3. Classroom, *one hour a week*; laboratory, †*four hours a week.* *Three credit hours.* MR. HITCHNER

56. Food Technology.—A general course in the principles and the applications of food conservation, with special reference to commercial practices in canning, drying, freezing, and special problems. Open to seniors and other students whose training in bacteriology and chemistry meets the approval of the instructor. Classroom, *one hour a week*; laboratory, †*four hours a week.* *Three credit hours.* MR. HIGHLANDS

61. 62. Seminar.—Preparation and presentation of papers dealing with current researches and developments in the fields of bacteriology. *One hour a week. One credit hour.* MR. HITCHNER

91. 92. Problems in Bacteriology.—A laboratory and conference course for students desiring to pursue some particular line of bacteriological investigation. This may include problems in applied bacteriology especially devoted to food technology. Open only to students who have done consider-

able work in bacteriology. The kind of work is arranged to suit individual students. *Credit, arranged.* MR. HITCHNER, MR. HIGHLANDS

125. Graduate Thesis.—*Credit, arranged.*

MR. HITCHNER

Biochemistry

1. Organic Chemistry.—For agricultural students. A study of the aliphatic compounds; hydrocarbons, alcohols, acids, amines, amides, etc., and brief resumé of the more important aromatic compounds. Classroom, *two hours a week*; laboratory, *†two hours a week*. *Three credit hours.*

MR. SMITH

2. Biochemistry.—Plant biochemistry, including a study of the physico-chemical reactions of plants. A detailed study of carbohydrates, fats, and proteins; glucosides; and enzymes. Prerequisite, Course 1. Classroom, *three hours a week*; laboratory, *†four hours a week*. *Five credit hours.*

MR. SMITH

4. Organic Chemistry.—Ionization and the intensity factor of acidity; elementary surface chemistry and colloidal phenomena; the hydrocarbons and alcohols. Classroom, *three hours a week*; laboratory *†two hours a week*. *Four credit hours.*

MR. PEDLOW

5. Biochemistry.—The aldehydes, acids, fats, carbohydrates, proteins and related compounds. Prerequisite, Course 4. Classroom, *three hours a week*; laboratory, *†two hours a week*. *Four credit hours.*

MR. PEDLOW

8. Agricultural Chemistry.—A brief discussion of the chemistry of plants, animals, soil, fertilizers, insecticides, milk, and related topics. This course is designed to furnish students with a working knowledge of chemistry as applied to agricultural products. *Two hours a week*. *Two credit hours.*

MR. SMITH

9. Biochemistry.—Animal biochemistry. Composition of the animal body; chemistry of digestion; assimilation and metabolism of foods; chemistry of blood and lymph; and elimination of waste product. Prerequisite, Course 2. *Two hours a week*. *Two credit hours.*

MR. SMITH

41. Biochemistry.—Detailed study of carbohydrates, fats, and proteins; nature of enzymes and their effect upon food materials; chemical changes involved in digestion, assimilation, and absorption of foods; respiration; chemistry of the blood, including clinical methods of analysis; and elimination of waste material from the animal body. Prerequisite, Course 1 or 4. *Three hours a week*. *Three credit hours.*

MR. SMITH

53. Agricultural Analysis.—A course dealing with quantitative analysis of fertilizers, foods, dairy products, and textile materials. Type of work will be adapted to needs of the student. Prerequisite, Course 1 or 4. †*Four or †six hours a week. Two or three credit hours.* MR. SMITH

57. Biological Colloids.—An introduction to colloidal chemistry with application and significance in biological systems. Open to junior, senior, and graduate students. Prerequisites, Courses 1 and 2 or 4 and 5. *Three hours a week. Three credit hours.* MR. PEDLOW

60. Physiological Chemistry.—The physiological utilization of the carbohydrates, fats, and proteins with special emphasis upon the functions of enzymes, hormones, and vitamins. Prerequisite, Course 2 or 5. *Three hours a week. Three credit hours.* MR. PEDLOW

61. Advanced Biochemistry.—A detailed treatment of the proteins, carbohydrates, and liquids. Prerequisite, Course 60. *Three hours a week. Three credit hours.* MR. PEDLOW

64. Biochemical Laboratory Methods.—Methods used in the biochemical laboratory for testing carbohydrates, fats, amino acids, proteins, enzymes; studies of the colloidal properties of biochemical material; H-Ion concentration measurement methods; and individual problems dealing with various phases of biochemical investigations. Prerequisite, Course 53 or Chemistry 41. †*Six hours a week. Three credit hours.* MR. PEDLOW

91. 92. Biochemical Research.—Problems dealing with various phases of biological or agricultural chemistry. Special problems may be selected by the student under direction and advice of the Department. A comprehensive written summary is required. Open only to senior and graduate students. *Credit, arranged.* MR. SMITH, MR. PEDLOW

125. Graduate Thesis.—*Credit, arranged.* MR. HITCHNER

BOTANY AND ENTOMOLOGY

PROFESSOR STEINMETZ; ASSOCIATE PROFESSOR DIRKS; ASSOCIATE PROFESSOR STEINBAUER; MR. OGDEN; MR. PIERCE; MR. GORHAM

Botany

1 (2). General Botany.—Fundamental principles of plant life, with special emphasis on life processes. Required of all students in the College of Agriculture excepting those registered in Agricultural Engineering and

Home Economics. Classroom, *two hours a week*; laboratory, †*four hours a week*. *Four credit hours*.

MR. STEINMETZ, MR. STEINBAUER, MR. OGDEN,
MR. PIERCE, MR. GORHAM

30. Plant Ecology.—Environmental factors determining adaptations and distribution of plant life. Prerequisite, Course 1 (2). Classroom, *one hour a week*; laboratory, †*two hours a week*. *Two credit hours*.

MR. STEINBAUER

32. Plant Physiology.—For students in Forestry. Prerequisites, Course 1 (2) and one year of chemistry. Classroom, *two hours a week*; laboratory, †*four hours a week*. *Four credit hours*.

MR. STEINBAUER

33. Forest Botany (Dendrology).—Classroom and field work on characteristics, habits, and classification of trees and native shrubs of North America. Prerequisite, Course 1 (2). Classroom, *two hours a week*; laboratory, †*four hours a week*. *Four credit hours*.

MR. OGDEN, MR. PIERCE

34. Forest Botany (Physiography).—A comprehensive study of range, distribution, and soil requirements of commercial timber trees of the United States. Prerequisite, Course 33. Classroom, *one hour a week*; laboratory, †*three hours a week*. *Two credit hours*.

MR. OGDEN

35. Plant Anatomy.—Structure of leaves, roots, and stems of herbaceous and woody plants. Prerequisite, Course 1 (2). Classroom, *two hours a week*; laboratory, †*four hours a week*. *Four credit hours*.

MR. STEINMETZ, MR. PIERCE

36. Taxonomy.—Flora of the field, woods, and stream. Prerequisite, Course 33. Classroom, *two hours a week*; laboratory, †*four hours a week*. *Four credit hours*.

MR. OGDEN

41. Biotic Relationships.—Interrelationships of plants and animals with emphasis upon fungi and lichens, and mosses. Prerequisite, Course 36. Classroom, *two hours a week*; laboratory, **three hours a week*. *Three credit hours*.

MR. OGDEN

42. Forest Pathology.—Principles of plant disease, as applied to seedlings, nursery stock, and forest trees; destruction of timber by fungi; and principles of control. Required of seniors in Forestry. Classroom, *two hours a week*; laboratory, †*four hours a week*. *Four credit hours*.

MR. STEINMETZ

43. Wood Identification.—Identification of commercial woods with the unaided eye, lens, and microscope. Open to students in Chemical Engineering. **Three hours a week*. *One credit hour*.

MR. OGDEN

45. General Genetics.—Principles of genetics. Prerequisite, one year of biology. Open to juniors and seniors. *Three hours a week. Three credit hours.* MR. STEINMETZ

46. Genetics Laboratory.—Breeding of *Drosophila*. Study of plant materials. Supplementary reading. †*Four hours a week. Two credit hours.* MR. STEINMETZ, MR. OGDEN

50. Histological Technique.—Methods and technique in the preparation of microscopic sections of plant material. Admission by arrangement with the instructor. Classroom, *one hour a week*; laboratory, **six hours a week. Three credit hours.* MR. PIERCE

53. Plant Physiology.—Classroom and laboratory work on the physiology of plants. Prerequisites, Course 1 (2) and one year of chemistry. Classroom, *two hours a week*; laboratory, †*four hours a week. Four credit hours.* MR. STEINBAUER

56. Plant Pathology.—Principles of plant disease. Open to juniors and seniors. Prerequisite, Course 1 (2). Classroom, *two hours a week*; laboratory, †*four hours a week. Four credit hours.* MR. STEINMETZ

57. Taxonomy of Vascular Plants.—Characteristics, identification, and classification of representative species of vascular plants. Prerequisite, Course 1 (2). Given in 1941. Classroom, *two hours a week*; laboratory and field, †*four hours a week. Four credit hours.* MR. STEINMETZ

59. General Mycology.—Morphology, identification, and classification of representative species of fungi. Prerequisite, Course 1 (2). Classroom, *two hours a week*; laboratory and field, †*four hours a week. Four credit hours.* MR. STEINMETZ

Entomology

21. General Entomology.—Fundamental facts and principles of insect life, principles of control, characteristics of the orders and families, and the relations of insects to plants and animals. Classroom, *two hours a week*; laboratory, †*four hours a week. Four credit hours.* MR. DIRKS

22. Forest Entomology.—Principles of insect life with special reference to shade and forest trees. Structure, metamorphosis, classification, and methods of control. Classroom, *two hours a week*; laboratory, †*four hours a week. Four credit hours.* MR. DIRKS

23. Taxonomy of Insects.—A general course on insects with emphasis upon identification and classification. Methods of collecting, rearing, and

mounting insects. Prerequisite, one year of biology. Consent of instructor required. Classroom, *two hours a week*; laboratory, *†four hours a week*. *Four credit hours*. MR. DIRKS

26. Entomology.—Designed for students in Wildlife Conservation. Classification, identification, and life histories. Emphasis upon aquatic life. Classroom, *two hours a week*; laboratory, **three hours a week*. *Three credit hours*. MR. DIRKS

40. Apiculture.—A practical course in the care of bees. The honeybee, its activities and habits; races of bees; diseases and enemies; and the production and marketing of honey. Given in 1941. Classroom, *one hour a week*; laboratory, *†two hours a week*. *Two credit hours*. MR. DIRKS

46. Advanced Forest Entomology.—An intensive study of insects that are destructive to shade and forest trees and to forest products. Prerequisite, Course 21 or 22. Given in 1940. Classroom, *one hour a week*; laboratory, *†two hours a week*. *Two credit hours*. MR. DIRKS

49. Economic Entomology.—An intensive study of the important insects of the orchard, garden, and farm; their life histories and habits, injuries, and methods of control. Prerequisite, Course 21 or 22. Consent of instructor required. Classroom, *two hours a week*; laboratory, *†two hours a week*. *Three credit hours*. MR. DIRKS

Problem Courses

47. 48. Problems in Botany or Entomology.—Open to juniors and seniors who have special interest and qualification in botany or entomology. The approval of the head of the department must be obtained before registering for this work. *Credit, arranged*.

MEMBERS OF THE DEPARTMENTAL STAFF

105. 106. Problems in Entomology.—*Credit, arranged*. MR. DIRKS

107. 108. Problems in Botany.—*Credit, arranged*. MR. STEINMETZ

125. Graduate Thesis.—*Credit, arranged*. MR. STEINMETZ

FORESTRY

PROFESSOR DEMERITT; ASSOCIATE PROFESSOR ALDOUS; ASSOCIATE PROFESSOR ASHMAN; ASSISTANT PROFESSOR CHAPMAN; ASSISTANT PROFESSOR CURTIS; MR. BAKER; MR. MENDALL

1. Elements of Forestry.—Importance and scope of the field of forestry, general methods of cutting and reforestation applicable in different

regions in the United States. Designed as a beginning course for foresters and a cultural course for others. Required of freshmen majoring in Forestry, and open to other students. *Two hours a week. Two credit hours.*

MR. DEMERITT, MR. ASHMAN

2. Elements of Forestry.—A continuation of Course 1, required of freshmen majoring in Forestry, and open to other students. Prerequisite, Course 1. *Two hours a week. Two credit hours.*

MR. DEMERITT, MR. ASHMAN

3. Logging.—The lumber industry in the United States considered from an economic standpoint; an account of logging methods in different forest regions. Textbook and lectures. Forestry sophomores only. *Two hours a week. Two credit hours.*

MR. CHAPMAN

4. Administration and Protection.—Problems in the administration of national, state, and private forest enterprises. Forest improvements, including trails, telephone lines, and look-out towers. Forest fire control. *Four hours a week. Four credit hours.*

MR. CURTIS

5. Forest Mensuration.—Theory and application of measurements of logs, trees, and stands of timber. Classroom, *two hours a week.* Field work, **three hours a week. Three credit hours.*

MR. DEMERITT

6. Forest Mensuration.—A continuation of Course 5. Theory and application of measurements of growth and yield. Classroom, *two hours a week;* field work, **three hours a week. Three credit hours.*

MR. DEMERITT

7. Lumber Manufacture.—Milling and marketing problems of the lumber industry in America. Forestry seniors only. First half-semester. *Four hours a week. Two credit hours.*

MR. BAKER

8. Silviculture.—A study of methods used to establish forests and to maintain them profitably until maturity, including the harvesting of the final stand. Prerequisite, Course 35s. Classroom, *three hours a week;* laboratory, **three hours a week. Four credit hours.*

MR. CURTIS

9. Wood Preservation.—Durability and seasoning of native woods; preservatives in commercial use; and methods of operation and equipment of preserving plants. Special attention given to posts, ties, poles, paving-blocks, and structural timbers. Prerequisites, Botany 33 and 34. First half of semester. *Two hours a week. One credit hour.*

MR. BAKER

10. Nursery Practice.—The study of forest-tree seed and seedlings; seeding and transplanting in the State Forest Nursery; practice in field planting. Nursery management. A minimum of 48 hours of work in the nursery required. Last nine weeks. **Six hours a week. One credit hour.*

MR. ASHMAN

13. Forest Protection.—Forest enemies with particular reference to fire, insects, and fungi. General methods for the control of forest fires and the administration of fire-fighting organizations. *Two hours a week. Two credit hours.* MR. CHAPMAN

14. Forest Products.—Forest products other than logs and lumber, such as pulpwood, veneers, shingles, lath, tight and slack cooperage, hoops and headings, excelsior, vehicle woods, spool stock, turpentine, tannin, gums, syrups, dye-woods, and charcoal. Methods of utilization, markets, and values. *Two hours a week. Two credit hours.* MR. BAKER

16. Wood Technology.—Identification and classification of the commercial woods of the United States based on simple lens inspection; the technical qualities of various species and their uses in the arts and trades. Prerequisites, Botany 33 and 34. Classroom, *two hours a week*; laboratory, **three hours a week. Three credit hours.* MR. BAKER

18. Preparation and Drafting of Maps.—Instruction in the correct drafting, preparation, and coloring of maps. The use of accepted conventional signs and symbols in mapping, and preparation of maps for reports and summaries of field surveys. Prerequisites, Drafting 1 and 2a. **Three hours a week. One credit hour.* MR. CHAPMAN

20. Woodlot Forestry.—General principles of forestry, with special reference and application to farm woodlands, particularly in this region. Lectures and textbook work in elementary systems of cutting, estimating, protection, and reforestation. Especially for agricultural students. Open to all students. *Two hours a week. Two credit hours.* MR. CHAPMAN

43. 44. Special Problems.—Original investigation in advanced forestry work, the subject to be chosen after consultation with the departmental staff. Open to high-ranking juniors and seniors. *Credit, arranged.*

MEMBERS OF THE DEPARTMENTAL STAFF

47-48. Orientation.—A course of lectures for freshmen in Forestry designed to acquaint them with the fields open to forestry and wildlife graduates. *One hour a week. No credit.* MR. DEMERITT

51. Regional Silviculture.—Applied systems of silviculture and management considered in relation to commercially important timber species and forest types in the United States. First half-semester. Prerequisite, Course 8. *Four hours a week. Two credit hours.* MR. CURTIS

52. Policy and Economics.—Character, extent, and distribution of forest resources, national, state, private, and foreign. Relation of government, corporations, and individuals to forest resources and applied forest

management. Brief discussion of state and Federal forest laws. *Four hours a week. Four credit hours.* MR. ASHMAN

53. Forest Finance.—Forest valuation and statics. The appraisal of values of stands of timber. Determination of returns from forests under management. Damage appraisal. First half-semester. Prerequisites, Courses 5, 6, and 8. Classroom, *three hours a week*; laboratory, *†two hours a week.* *Two credit hours.* MR. DEMERITT

55. Forest Management.—Theory of the normal forest; forest organization and regulation for a sustained yield. Calculations for and preparation of a forest-management plan. First half-semester. *Four hours a week.* *Two credit hours.* MR. ASHMAN

56. Forest Management.—Continuation of Course 55. Prerequisite, Course 55. *Two hours a week. Two credit hours.* MR. ASHMAN

57. Game Management.—Production of sustained annual crops of wild game for recreational use. Field studies in game-census work, artificial restocking, and ecological factors controlling game populations. First half-semester. Classroom, *four hours a week. Two credit hours.*

MR. MENDALL

101. 102. Forest Mensuration Problems.—*Credit, arranged.*

MR. DEMERITT

103. 104. Forest Management Problems.—*Credit, arranged.*

MR. DEMERITT, MR. ASHMAN

105. 106. Game Management Problems.—*Credit, arranged.*

MR. ALDOUS

125. Graduate Thesis.—*Credit, arranged.*

MR. DEMERITT

Summer Courses

35s. Silvics.—The life factors determining the character and form of forest vegetation. The development of forest types and the silvical characteristics of stands. Prerequisites, Botany 33 and 34. **Sixteen hours a week. Two credit hours.* MEMBERS OF THE DEPARTMENTAL STAFF

37s. Forest Mensuration.—Practical field work in the measurement of logs, individual trees and large stands of timber. Forestry instruments. **Eight hours a week. One credit hour.*

MEMBERS OF THE DEPARTMENTAL STAFF

39s. Forest Products.—Study of forest products other than logs and lumber with particular reference to their manufacture. **Eight hours a week. One credit hour.*

MEMBERS OF THE DEPARTMENTAL STAFF

45s. General Ecology.—Course covering the field study of flora and fauna in relation to environment. Field work, **twenty-four hours a week. Three credit hours.* MEMBERS OF THE DEPARTMENTAL STAFF

Course at Senior Camp

41. Practice of Forestry.—Forestry seniors only. Business principles involved in the management of a forest area including the preparation of a complete working plan. Topographic maps and detailed estimate of stands are included in the plan. Second half-semester. **Forty-eight hours a week. Nine credit hours.* MEMBERS OF THE DEPARTMENTAL STAFF

HOME ECONOMICS

PROFESSOR GREENE; PROFESSOR SWEETMAN; ASSISTANT PROFESSOR MUSGRAVE; ASSISTANT PROFESSOR CONEY; ASSISTANT PROFESSOR MCCARTHY; ASSISTANT PROFESSOR NESBITT; MRS. SNYDER; MISS BORGMAN; MISS KELLEY; MISS GOULD

1. Introduction to Home Economics.—A study of the problems of adjustment to college life and a survey of the professional fields open to Home Economics trained women. *Three hours a week. Three credit hours.*

MISS GREENE, MISS NESBITT, MISS BORGMAN

2. Clothing Selection Problems.—Study of factors involved in selection of clothing in good taste. Economic aspects including budgets and detailed study of fabrics and fibers. Classroom, *two hours a week*; laboratory, *†two hours a week. Three credit hours.* MISS KELLEY

3. Design.—A first course in art expression. The principles of design as they may be applied to house decoration, costume design, advertising and related subjects. Some technique in the use of color, line, balance, rhythm, emphasis, and proportion is acquired in the laboratory. Classroom, *one hour a week*; laboratory, *†four hours a week. Three credit hours.*

MISS MUSGRAVE

4. The House.—Selecting and furnishing the house in accordance with family needs and resources. Problems based on existing housing conditions and a study of the effect of changing social, economic, and material factors. Prerequisites, Courses 3 and 14. Classroom, *two hours a week*; laboratory, *†two hours a week. Three credit hours.* MISS BORGMAN

5; 6. Foods.—Selection and preparation of foods in relation to nutritive quality, palatability, digestibility, sanitary quality, and economy

and study of the food market from the consumer's standpoint. Laboratory work in the principles of buying and preparing foods and the planning and serving of family meals. Prerequisites, one year of chemistry; for Home Economics students, Chemistry 5 and Biochemistry 4. Classroom, *two hours a week*; laboratory, *†four hours a week*. *Four credit hours*.

MRS. SWEETMAN, MRS. SNYDER

7; 8. Clothing Construction Problems.—A laboratory course dealing with the techniques of garment construction. The use of the sewing machine, commercial patterns, selection of materials, fitting and finishes are included. Prerequisite, Course 3. Laboratory, *†four hours a week*. *Two credit hours*.

MISS KELLEY

8a. Clothing Construction Problems.—A laboratory course, covering in one semester material in Course 7, 8. For students who have had adequate previous training in this field. Admission by arrangement only. Laboratory, *†four hours a week*. *Two credit hours*.

MISS KELLEY

10. Home Care of the Sick.—A study of the principles and practices of care of the sick. Designed to train the student to recognize common symptoms of departure from normal health, to give routine home care in minor illnesses, and to carry out intelligently the directions of a physician. Prerequisite, Bacteriology 3. *One credit hour*.

MISS BORGMAN

11. Household Management.—Homemaking as a profession. Standards and objectives for household management in the provision of health, contentment, and development of family members. Techniques of management of time and energy to contribute to securing the values of family life. *Two hours a week*. *Two credit hours*.

MISS BORGMAN

12. Senior Survey.—A comprehensive review to improve the student's command of home economics and related subject matter, and her ability to integrate, organize, and present it. Preparation for the examination consists of the making and use of outlines and bibliographies in the major divisions of the field. *One credit hour*.

MEMBERS OF THE DEPARTMENTAL STAFF

14 (15). The Pre-School Child.—A study of factors involved in physical, mental, social, and emotional development of children. Opportunity for observing and guiding activities of pre-school children in a play school. For Home Economics students. Classroom and laboratory, *arranged*. *Three credit hours*.

MISS NESBITT

17 (18). Applied Design.—a. Application of design principles to problems in textiles, including block printing, batik, decorative needlework,

and hand weaving. Prerequisite, Course 3. Laboratory, †four hours a week. Two credit hours.

b. Similar to the above but with special emphasis on problems which may be used in home economics classes in secondary schools. Prerequisite, Course 3. Laboratory, †four hours a week. Two credit hours.

MISS MUSGRAVE

21 (22). Household Administration.—Students organize and execute activities of the home management house. Emphasis on attitudes essential to satisfactory group living and on managerial ability. Marketing, planning, preparing and serving meals, care of a young child, money management, care of the house, and informal home entertaining. Seniors, or juniors by permission. Two or three credit hours.

MISS BORGMAN

23 (24). Family Meals.—Food selection and preparation with emphasis on nutritional adequacy, moderate cost, and scientific methods of preparation. For Arts and Sciences students above freshman rank only. Classroom, one hour a week; laboratory, †four hours a week. (Given one semester only.) Three credit hours.

MRS. SWEETMAN, MRS. SNYDER

25. Economics of the Household.—Planning personal and family expenditures with emphasis on problems of the consumer-buyer. For Arts and Sciences students above freshman rank only. Two hours a week. Two credit hours.

MISS GREENE

26. The Child in the Home.—Functions of the home as an environment for human development; factors involved in the growth and development of children. For Arts and Sciences students. Corresponds in part to Course 14. Laboratory consists of observation of play school. Classroom and laboratory, arranged. Three credit hours.

MISS BORGMAN

28. Camp Feeding.—Problems involved in selection, purchase, and preparation of food for camp groups. Open to Forestry juniors by permission of the Head of the Forestry Department, and to others by permission of the instructors in charge of the course. Classroom and laboratory, three hours a week. Two credit hours.

MRS. SWEETMAN, MRS. SNYDER

43 (44). House Furnishing.—House furnishing as an art. Problems in choice and arrangement of furniture and materials to satisfy aesthetic and functional requirements. Given in the fall of 1940 and alternate years. Prerequisites, Course 3 and Course 4, or special permission of the instructor. Classroom, two hours a week; laboratory, †two hours a week. Three credit hours.

MISS MUSGRAVE

45 (46). Advanced Clothing Construction.—Laboratory problems in selecting and constructing tailored coats and suits. A portion of the

semester is given to the problem of selecting and constructing children's clothing. Laboratory, †four hours a week. Two credit hours.

MISS KELLEY

47 (48). Fundamentals of Costume Design.—Elements and principles of costume design. Prerequisite, Course 3. Laboratory, †two hours a week. One credit hour.

MISS MUSGRAVE

49 (50). Clothing Patterns.—Use of commercial pattern for making individual foundation pattern. Problems in designing and changing of designs with use of pattern; its aid in fitting problems, and use in construction of garments. Laboratory, †four hours a week. Two credit hours.

MISS KELLEY

51. Clothing Economics.—Study of fashion, retailing and standards as an aid to consumer buying of clothing. One credit hour.

MISS MUSGRAVE

52. Draping.—By means of draping in fabric opportunity is afforded for working out problems in color, design, and texture in formal and informal dresses. Given in 1940 and alternate years. Prerequisite, Course 51. Laboratory, †four hours a week. Two credit hours.

MISS MUSGRAVE

53 (54). Family Economic Problems.—A study of family cash and real income as related to American standards of living. Household budgets. Consumer buyer problems. Prerequisite or parallel, Course 11. Three hours a week. Three credit hours.

MISS GREENE

55 (56). Home Economics Education.—The teaching of home economics in junior and senior high schools. A study of setting up objectives, selecting and organizing teaching units, and choosing effective methods, as illustrated in texts, courses of study, and current literature. Three hours a week. Three credit hours.

MISS GREENE

57a. Food Preservation.—The principles and recommended practices for household food preservation with emphasis on canning. Prerequisite, Course 6. Parallel, Bacteriology 3 and 5. One credit hour.

MRS. SWEETMAN

57b. (58b). Demonstrations.—The planning and giving of demonstrations illustrating recommended practices for the home with emphasis of food preparation. Open to seniors and juniors by special permission. One credit hour.

MISS MCCARTHY

57c (58c). Nursery School Meals.—The planning, preparing, and serving of meals for the nursery school. Prerequisite, Course 65. One to two credit hours.

MISS BORGMAN

59, 60(a-j). Special Problems.—Individual problems in the various fields of home economics, arranged to enable students to extend their command of subject matter, or develop techniques according to individual interests and needs. *One to six credit hours*, in each subdivision.

59, 60a. Nutrition

59, 60b. Foods

59, 60c. Clothing and Textiles

59, 60d. Design

59, 60e. History of Costume

59, 60f. House Planning and Decoration

59, 60g. Child Development

59, 60h. Household Management

59, 60i. Home Economics Education

59, 60j. Institutional Management

MEMBERS OF THE DEPARTMENTAL STAFF

61. History of Costume.—A survey of the development of costume of men and women from the peoples of antiquity, through various periods of European history to the present time. Lectures, reading, and collection of illustrations. *One hour a week. One credit hour.* MISS MUSGRAVE

63 (64). Nutrition.—Principles involved in normal nutrition at all ages. Prerequisite, Biochemistry 5, or Chemistry 51, 52. *Two hours a week. Two credit hours.* MRS. SWEETMAN

65 (66). Dietetics.—Calculation and preparation of dietaries for normal individuals at all ages. Prerequisite for Home Economics students, a summer project in foods. †*Four hours a week. Two credit hours.*

MRS. SNYDER

67 (68). Nutrition in Abnormal Conditions.—A study of the principles involved in adjusting diets in such diseases or other abnormal conditions as are benefited by variations from normal diets. Laboratory consists of demonstrations of nutritional deficiencies in animals. Prerequisite, Course 63. *Two or three credit hours.* MRS. SWEETMAN

71 (72)a. Supervised Teaching.—Directed teaching in home economics. Students teach classes in the junior high school at Brewer. *Two credit hours.* MISS GOULD

71 (72)b. Supervised Teaching.—Similar to 71, 72a, but in centers other than Brewer. MISS CONEY

73. 74. Supervised Field Teaching.—Observation, participation, and teaching for two weeks' period each semester in a selected junior or senior

high school in the State, under the immediate direction of the local teacher. *Two weeks full time. Two credit hours, each semester.* MISS CONEY

75 (76). *Apprentice Teaching.*—Apprentice teaching in high school under the immediate supervision of a qualified local home economics teacher approved by the State Department of Education. Open only by selection in coöperation with the State Department of Education, to students chosen on the basis of their own request, their academic and personnel records, and the success of their teaching in Course 71. Students who complete this course successfully receive a vocational certificate. *A full semester. Sixteen credit hours.* MISS CONEY

78. *Advanced Home Economics Education.*—A study of curriculum problems, budget, equipment, and classroom management. *Two hours a week. Two credit hours.* MISS CONEY

81 (82). *Institutional Foods.*—Problems involved in the feeding of groups on a commercial basis, as menu planning, food buying, the application of food preparation principles to large-quantity cookery, use of large-scale equipment, quality standards. A faculty dining room is operated as a laboratory for the course. Prerequisites, Courses 5 and 6. Classroom, *one hour a week*; laboratory, **six hours a week. Three credit hours.*

MISS MCCARTHY

84. *Institutional Foods Management.*—Organization and management. Personnel management. Cost control. Equipment. Trips to inspect equipment. Prerequisite, Course 81 (82). Classroom, *two hours a week. Two credit hours.*

MISS MCCARTHY

85 (86). *School Lunch.*—A study of the special institutional management problems of the school lunch. Laboratory practice in the planning, preparation, and serving of low-cost lunches. Lecture and laboratory, *arranged. One credit hour.*

MISS MCCARTHY

87 (88). *Institutional Foods Management Laboratory.*—Managerial responsibilities in tea room and school-lunch service. Prerequisite, Course 81 (82). Laboratory, **three or six hours. One or two credit hours.*

MISS MCCARTHY

91. *Costume Design.*—Problems in dress design for various persons and occasions. Designing chiefly in pencil and water color. Given in 1939 and alternate years. Prerequisite, Course 3. Laboratory, *†six hours a week. Three credit hours.*

MISS MUSGRAVE

92. *Costume Design.*—Advanced dress design problems using a variety of mediums including paper, paint, and fabric. Course 52 prerequisite or

parallel. Given in 1941 and alternate years. Laboratory, †*six hours a week*. *Three credit hours.* MISS MUSGRAVE

101 (102). Advanced Nutrition.—Methods of research in nutrition and recent advances in the field. Prerequisite, Course 63. Offered if sufficient demand. *Two or three credit hours, as arranged.* MRS. SWEETMAN

103 (104). Advanced Foods.—Methods of research in food preparation and recent advances in the field. Prerequisites, Course 6 and Biochemistry 5. Offered if sufficient demand. *Two or three credit hours, as arranged.* MRS. SWEETMAN

125. Graduate Thesis.—In Home Economics or Home Economics Education. *Credit, arranged.* MISS GREENE, MRS. SWEETMAN, MISS CONNOR

HORTICULTURE

PROFESSOR WARING; ASSISTANT PROFESSOR CLAPP;
ASSISTANT PROFESSOR RILEY

General Courses

2. General Horticulture.—An introductory treatment of practices and related principles basic to the production of fruits, vegetables, and flowers, and to ornamental horticulture. Classroom, *two hours a week*; laboratory, †*two hours a week*. *Three credit hours.* MR. WARING

4. Plant Propagation.—Methods of propagating plants. Current literature on propagation is reviewed. A report on methods applicable to a particular branch of horticulture is required. Given in 1939-40 and alternate years. First nine weeks. Classroom, *two hours a week*; laboratory, †*four hours a week*. *Two credit hours.* MR. CLAPP

11. 12. Problems in Horticulture.—Open to upperclass students who manifest special interest and the capacity for individual effort. The consent of the instructor must be obtained in each case before registration. *Credit, arranged.* These courses may be repeated for credit.

MEMBERS OF THE DEPARTMENTAL STAFF

14. Summer Practice.—Supervised practice in the gardens, greenhouses, nurseries, and orchards of the College. Short trips to specialized farms and florists' establishments may be included, and a trip of approximately four days' duration to inspect horticultural enterprises and estates in Maine and other New England states. Four weeks, close of spring semester, junior year. *Four credit hours.* MEMBERS OF THE DEPARTMENTAL STAFF

51. 52. Seminar.—Critical reviews of literature in selected or assigned horticultural subjects, preparation of abstracts and papers, classroom presentation and discussion. Staff members and invited guests participate. *One or two hour a week by arrangement. Credit, arranged.* MR. WARING

54. Plant Propagation.—A continuation of Course 4 into more advanced phases of the subject. Given in alternate years with Course 4. Classroom, *one hour a week*; laboratory, *†two hours a week. Two credit hours.*

MR. CLAPP

Pomology

1. Fruit Handling.—The commercial apple industry and its methods in Maine and competing regions, with minor attention to other tree fruits. Laboratory exercises include grading and packing and visits to commercial-scale orchards, packing houses, and storage plants. Classroom, *two hours a week*; laboratory, *†two hours a week. Three credit hours.* MR. WARING

9. Fruit Judging.—The selection of fruit, chiefly apples, for exhibition; the identification of varieties; and judging. The intensive training should ordinarily lead to participation in an intercollegiate apple-judging contest. Open to any interested student. **Six hours a week, first nine weeks. One credit hour.* MR. WARING

53. Systematic Pomology.—A survey of the species and important cultivated varieties of fruits and nuts, emphasizing botanical status as well as pomological classification, distribution, and use. Given in 1940-41 and alternate years. Classroom, *two hours a week*; laboratory, *†two hours a week. Three credit hours.* MR. WARING

55. Advanced Pomology.—An advanced treatment of principles and methods involved in the planting and management of orchards. Given in alternate years with Course 53. Classroom, *two hours a week*; laboratory, *†two hours a week. Three credit hours.* MR. WARING

Vegetable Gardening

10. Small Fruits.—A consideration of varieties, cultural methods, and handling of such fruits as strawberries, grapes, raspberries, blackberries, and blueberries. *Three hours a week. Three credit hours.* MR. RILEY

20. Vegetable Gardening.—The best commercial practices; and the results of recent experimentation as applied to vegetable gardening. Classroom, *two hours a week*; laboratory, *†two hours a week. Three credit hours.*

MR. RILEY

21. Vegetable Crops.—Includes harvesting, marketing, storage, and systematic study of types and varieties of vegetables; also care of vegetables for seed production. Prerequisite, Course 20. Classroom, *two hours a week*; laboratory, *†two hours a week*. *Three credit hours*. MR. RILEY

25. Vegetable Forcing.—Culture of vegetables under glass, types of greenhouses, special soil management problems involved, marketing. Prerequisite, Course 20. Classroom, *two hours a week*; laboratory, *†two hours a week*. *Three credit hours*. MR. RILEY

Floriculture and Ornamental Horticulture

3. Trees and Shrubs.—The plant materials used in landscape gardening, emphasizing identification, nomenclature, and the characteristics upon which their special values for the purpose are based. Classroom, *one hour a week*; laboratory, **three hours a week*. *Two credit hours*. MR. CLAPP

5. Recreational Landscaping.—Materials and principles of landscape design with particular reference to recreational projects and roadside improvement. Classroom, *two hours a week*; laboratory, **three hours a week*. *Three credit hours*. MR. CLAPP

6. Landscape Gardening.—Principles of landscape design with particular reference to the home grounds. Observational trips to Bangor and Old Town may be required. Prerequisite, training in mechanical drawing. Classroom, *two hours a week*; laboratory, **three hours a week*. *Three credit hours*. MR. CLAPP

7. Commercial Floriculture.—Principles underlying the production of flowers under glass; special consideration of methods for important cut-flower crops. One or more half-day trips in the Bangor area may be arranged. Prerequisite, Course 8. Classroom, *two hours a week*; laboratory, *†two hours a week*. *Three credit hours*. MR. CLAPP

8. Home Floriculture.—The culture and care of garden flowers and house plants and the use of flowers in the home. Open to any student. Classroom, *two hours a week*; laboratory, *†two hours a week*. *Three credit hours*. MR. CLAPP

15. Landscape Gardening.—A continuation of Course 6 treating the development of irregular-surfaced areas, the farmstead, and large tracts; the design of recreational areas; and the professional phases of landscape architecture. A one-day trip to Mt. Desert Island is required. Classroom, *two hours a week*; laboratory, **three hours a week*. *Three credit hours*. MR. CLAPP

Graduate Courses

101. 102. Horticultural Investigations.—*Credit, arranged.*

MEMBERS OF THE DEPARTMENTAL STAFF

103. 104. Research Methods.—Application of scientific method and equipment to the solution of horticultural problems and preparation of manuscript for publication. *Usually, as arranged, two credit hours.*

MR. WARING

125. Graduate Thesis.—*Credit, arranged.*

MR. WARING

POULTRY HUSBANDRY

PROFESSOR SMYTH; ASSISTANT PROFESSOR GARDNER

1. General Poultry Husbandry.—A general course in poultry production, incubation, brooding, housing, feeding, and management. Laboratory work includes production judging, preparation of poultry products for market, egg grading, and other poultry management practices. Classroom, *two hours a week*; laboratory, *†two hours a week*. *Three credit hours.*

MR. SMYTH

2. Incubation and Brooding.—Principles of incubation and brooding. Laboratory practice in incubator and brooder management. Prerequisite, Course 1. Classroom, *two hours a week*; laboratory, *†two hours a week*. *Three credit hours.*

MR. SMYTH

3. Exhibition and Production Poultry Judging.—Selection and mating of fancy and utility poultry. Laboratory practice in judging fancy and utility poultry, and a study of the standard requirements of the breeds. Prerequisite, Course 1. Classroom, *one hour a week*; laboratory, *†two hours a week*. *Two credit hours.*

MR. GARDNER

4. Incubation and Brooding of Game Birds.—Principles of incubation and brooding; study of equipment and practical methods of brooder and range management. Classroom, *one hour a week*; laboratory, *†two hours a week*. *Two credit hours.*

MR. SMYTH, MR. GARDNER

22. Poultry Breeding.—Principles of breeding as applied to poultry inheritance of egg productivity; systems of breeding; and study of pedigrees and breeding results. Some time is given to a study of methods used by successful poultry breeders. Prerequisites, Course 1 and Botany 45. Classroom, *two hours a week*. *Two credit hours.*

MR. SMYTH

25. Poultry Feeding.—General principles of nutrition as applied to poultry; poultry feeds; calculating rations; estimating cost of feeds and feeding; and methods of feeding for economical production. Prerequisite, Course 1. *Two hours a week. Two credit hours.* MR. GARDNER

26. Poultry Farm Management.—The business of poultry farming; systems and operations in use on large poultry farms; planning of specialized poultry farms. In so far as is practicable, visits will be made to poultry farms. Prerequisites, Courses 1, 2, 3, and 5. Classroom, *one hour a week*; laboratory, *†two hours a week. Three credit hours.* MR. GARDNER

***40. Poultry Diseases.**—Principles of hygiene and sanitation applied to the prevention and control of the diseases of poultry, including a detailed consideration of the pathological processes involved in the common diseases. *Two hours a week. Two credit hours.* MR. WITTER

51. 52. Problems in Poultry Husbandry.—*Credit, arranged.*

MR. SMYTH

53. 54. Seminar.—A study of poultry organizations and literature giving results of recent research work in the field of poultry husbandry. Prerequisites, Courses 1, 3, and 22. *One hour a week. One credit hour.*

MR. SMYTH

ALL DEPARTMENTS

Summer Projects.—A student in the College of Agriculture desiring to carry out a field project during the summer recess under faculty direction may obtain credit for such work providing arrangement is properly made with the major department concerned and the project is successfully carried through to completion. Project work may be conducted during any summer recess between the freshman and senior years. Freshman-Sophomore Project is designated Pj 1 and Sophomore-Junior Project is designated Pj 2, each limited to one hour credit. Junior-Senior Project is designated Pj 4 and may be one, two, or three hours credit. Complete details concerning project work may be obtained from heads of departments in which major curricula are offered.

* The description of this course also appears under the Department of Animal Industry.

TWO-YEAR COURSE IN AGRICULTURE

DIRECTOR LORING

First Year—Fall Semester

Animal Husbandry—Dairy Production.—A general survey of the field of dairy production and economic reasons for growth of the dairy industry. Breeds of dairy cattle and their care, feed, and management. Classroom, *two hours a week*; laboratory, †*two hours a week*. *Three credit hours*.

MR. HALL

Business Arithmetic.—A course in arithmetic based on the problems confronting the farmer in his business. *Two hours a week*. *Two credit hours*.

MR. LORING

Farm Botany.—Plant structure and tissues in their relation to plant growth and development and to agricultural practices. Classroom, *one hour a week*; laboratory, †*two hours a week*. *Two credit hours*.

MR. OGDEN

Farm Chemistry.—A review of general chemistry; chemistry of plant and animal life as related to agriculture; fungicides and insecticides; gasoline and oil. *Two hours a week*. *Two credit hours*.

MR. SMITH

Farm Crops.—Practices in growing crops under field conditions. Classroom, *two hours a week*; laboratory, †*two hours a week*. *Three credit hours*.

MR. RALEIGH

Forge Work.—Forging; welding; tool-steel work. **Three hours a week*. *One credit hour*.

MR. DAVEE

Fruit Handling.—Picking, packing, grading, storing, shipping, and marketing of fruit, particularly the apple. A survey is made of the principal apple producing regions and of the general status of the industry. A small amount of systematic study of fruits and some fruit judging are included. Classroom, *two hours a week*; laboratory, †*two hours a week*. *Three credit hours*.

MR. RILEY

Potato Production.—Consideration of the principles and practices involved in the production of potatoes under Maine conditions. Classroom, *two hours a week*; laboratory, †*two hours a week*. *Three credit hours*. MR. LIBBY

Poultry Husbandry.—Origin and development of types, breeds, and varieties of poultry; care, feed, and management; housing, breeding, incubation and brooding; and marketing poultry products. Laboratory practice in judging poultry and eggs, and in grading and packing eggs. Killing, pick-

ing, and packing poultry. Classroom, *two hours a week*; laboratory, †*two hours a week*. *Three credit hours*. MR. GARDNER

First Year—Spring Semester

Carpentry.—Graded exercises in woodworking designed to familiarize the student with tools used in modern woodworking practice and to give him experience in working from dimensioned drawings. †*Four hours a week*. *Two credit hours*. MR. SWIFT

Dairy Husbandry—General Dairying.—Milk secretion and composition; testing of milk and milk products; sanitary production and handling of milk from farm to consumer; cream separation; and buttermaking. Classroom, *two hours a week*; laboratory, †*four hours a week*. *Four credit hours*. MR. POPE

English.—Part of the time is devoted to a review of grammar and to the principles of effective writing, with attention also to spelling and punctuation. Weekly papers, chiefly expository, are required. *Two hours a week*. *Two credit hours*. ENGLISH DEPARTMENT

Farm Economics.—An elementary course in the principles of economics as applied to agriculture. The following subjects are considered: development of commercial agriculture, price-making forces, production, land policies, farm credit, tariff, taxation, and agricultural organization. *Two hours a week*. *Two credit hours*. MR. NIEDERFRANK

Fruit Growing.—Principles and practices which should be followed in choosing an orchard site, and in the subsequent planting and culture, pest control, and other care leading to the production of profitable crops. Classroom, *two hours a week*; laboratory, †*two hours a week*. *Three credit hours*. MR. RILEY

Poultry Husbandry.—A continuation of the course given in the fall semester. Classroom, *two hours a week*; laboratory, †*two hours a week*. *Three credit hours*. MR. GARDNER

Soils and Fertilizers.—Properties, management, and fertilization of soils in relation to fitting them for production of crops. Classroom, *three hours a week*; laboratory, **three hours a week*. *Four credit hours*. MR. LIBBY

Second Year—Fall Semester

Animal Husbandry—General Animal Husbandry.—Breeds, and care, feed, and management of horses, beef cattle, sheep, and swine. Labora-

tory work in judging horses, sheep, and swine. Classroom, *two hours a week*; laboratory, †*two hours a week*. *Three credit hours*. MR. HALL

Diseases of Farm Animals.—A general course including anatomy, physiology, hygiene, and sanitation. Methods for the prevention and control of the common diseases of domestic animals are given special attention. *Three hours a week*. *Three credit hours*. MR. WITTER

English.—Instruction in practical uses of English, including business correspondence, with as much review of grammar as seems necessary. *Two hours a week*. *Two credit hours*. ENGLISH DEPARTMENT

Farm Engineering and Mechanics.—Running farm lines, laying out drainage systems, and planning farm buildings and conveniences. Classroom, *two hours a week*; laboratory, **three hours a week*. *Three credit hours*. MR. SWIFT

Farm Insects.—A practical study of insects in their economic relationships to farm plants and farm animals. Classroom, *one hour a week*; laboratory, †*two hours a week*. *Two credit hours*. MR. DIRKS

Farm Management.—Factors that affect the profitable operation of the farm as a business unit including size of business; labor efficiency; crop rotation; farm layout, and production costs. Individual farming systems are studied. Classroom, *two hours a week*; laboratory, **three hours a week*. *Three credit hours*. MR. NIEDERFRANK

Poultry Husbandry—Poultry Management.—A general consideration of poultry management with especial reference to sanitation and disease. *Two hours a week*. *Two credit hours*. MR. GARDNER

Vegetable Growing.—Production of vegetables for home use. Important commercial vegetables of New England. Handling of forcers, growing of seedlings, marketing, and other topics are included in as much detail as time will permit. Classroom, *two hours a week*; laboratory, †*two hours a week*. *Three credit hours*. MR. RILEY

Second Year—Spring Semester

Animal Husbandry—Feeding Live Stock.—General principles underlying feeding of livestock; composition and characteristics of feed stuffs; calculating rations; and the best practices in feeding farm animals. Classroom, *three hours a week*; laboratory, †*two hours a week*. *Four credit hours*. MR. HALL

English.—A continuation, including reports, abstracts, and oral composition based on agricultural material. *Two hours a week. Two credit hours.*

ENGLISH DEPARTMENT

Farm Crops.—Grass and forage plants, their culture and uses. Classroom, *two hours a week*; laboratory, **three hours a week. Three credit hours.*

MR. RALEIGH

Farm Machinery.—A course given to acquaint the student with the machinery adapted to farm use. Classroom, *two hours a week*; laboratory, **three hours a week. Three credit hours.*

MR. MEYER

Marketing Farm Products.—A course dealing with the economic problems in marketing farm products, with particular attention given to marketing Maine products, such as dairy and poultry products, apples, and potatoes. Time is also given to a study of the principles and methods of coöperative marketing. *Three hours a week. Three credit hours.*

MR. NIEDERFRANK

Forestry.—The general principles of forestry with special reference and application to the farm woodlands, particularly in this region. Lectures and textbook work in elementary systems of cutting, estimating, protection, and reforestation. *Two hours a week. Two credit hours.*

MR. CHAPMAN

Small Fruit Culture and Plant Propagation.—Strawberries, raspberries, blackberries, blueberries, cranberries, grapes, and some other fruits of minor importance in the State. Production and disposal of the crops are considered. Instruction is given in general propagation of plants. Classroom, *two hours a week*; laboratory, *†two hours a week. Three credit hours.*

MR. RILEY

College of Arts and Sciences

PURPOSE

In an age which stresses the utilitarian and so-called practical interests of education, the College of Arts and Sciences reasserts its cultural objectives, its efforts to preserve the best that the past has bequeathed us, and its attempts to enrich and enhance human living. Our time calls preëminently for men and women of critical intelligence, broad and sympathetic understanding of human needs, and determination of purpose. The College of Arts and Sciences seeks, therefore, to train and inspire loyal and competent citizens to meet the demands of the present, and to enrich the life of their respective communities.

In addition to the obvious value of the social sciences in meeting contemporary needs, the College recognizes as indispensable the disinterested pursuit of knowledge and the free play of the mind in the region of literature and the other arts. It believes that no adequate and enduring human progress can be achieved if any essential part of human nature remains undeveloped.

Specifically, the College of Arts and Sciences conceives its task in terms of the particular needs of the various classes of students whose interests it seeks to serve. It offers, for example, a specific curriculum to those who contemplate entering the professional schools of medicine, nursing, dentistry, law, government, business, social work, the arts, and many others. In collaboration with the School of Education, it offers specific training to prospective teachers.

In all cases, however, the College aims both at the production of useful skills and techniques and at the training of men and women who may be able and willing to turn their training toward socially desirable ends.

ADMISSION

The requirements for admission are given in full elsewhere in the catalog. They are practically the same as for other New England colleges and may be met by a four-year preparatory course in a good high school or academy. Graduates of Maine normal schools who are also graduates of an approved high school will receive sophomore standing.

The regular admission requirements will be applied to all students who enter with advanced standing. Students must make up all entrance requirements before registering as juniors. Those who transfer from other colleges must make them up within a year.

GRADUATION REQUIREMENTS

The work of the College of Arts and Sciences leads to the degree of Bachelor of Arts (B.A.). Beginning with the class of 1940, men students not excused from taking Military Science are required to complete 127 hours. For men required to take less than two full years of Military Science, the total of credit hours is reduced proportionately. All other students are required to complete 120 credit hours.

Every candidate for the degree is required to complete a basic course in English, in social science, and in mathematics and natural science. He is also required to elect a foreign language until he has passed a reading test. In addition, two years' work in Physical Training is required of all students, without credit. Seven hours of Military Science are required of men students. All women in the College take, in their freshman year, Elementary Hygiene, for which two credits are given.

Eighteen to twenty-four hours must be completed in the major field during the last two years. Ninety-five of the hours taken must be of C grade or better. No more than the equivalent of 130 hours, exclusive of Elementary Military Training, may be taken to satisfy this 95 hour C requirement. If a student transfers from another institution, he must also satisfy the 95 hour C requirement. Grades below C are not accepted from other institutions.

A satisfactory grade on the comprehensive examination is a requirement for the degree in certain departments.

Students who transfer to this college as sophomores from another college of the University must complete one fourth of the total hours required in the college from which they transferred plus 90 hours in the College of Arts and Sciences; juniors must complete one half of the total hours, plus 60 hours; and seniors three fourths of the total hours, plus 30 hours. They must also satisfy the 95 hour C requirement. They will be required to do two full years' work in the College of Arts and Sciences before receiving the bachelor's degree with the exception that students from the College of Technology may transfer after the junior year and be graduated in Arts and Sciences after one year's work as major students in the Departments of Physics, Chemistry, or Mathematics; and students from the College of Agriculture may similarly transfer and be graduated as majors in the Department of Zoology.

FOREIGN LANGUAGE

Every student in the College of Arts and Sciences is required before graduating to demonstrate that he has mastered one foreign language well

enough to be able to read and understand it with some ease. It is recommended that the student, unless he has special reasons, continue with a language which he has already studied in high school. If he has settled upon his major subject when he enters the University, he should ascertain the specific language preference in that field. Students entering with three years of French or four years of Latin normally meet the requirement by completing an additional year in either of these languages. In general, whatever the choice, it is expected that the requirement will be met before the beginning of the third year. Courses in language should be taken continuously until the examination has been passed.

Reading Tests in Romance Languages

1. For most students a reasonable preparation for taking a reading test in a Romance language shall be considered to be four years of work in high school or two years of work in college or the equivalent.
2. Students are not ordinarily expected to apply for a reading test more than twice in one year.
3. A reading test is given regularly early in January and early in May before the winter and spring registrations respectively.
4. In addition, a reading test is given in the latter part of the afternoon of the day devoted to upperclass registration in the fall especially for the following classes of students:
 - a. Transfer students from Westbrook and other institutions who have not taken such a test previously.
 - b. University of Maine students previously in residence who for some reason did not take the May test or who, having failed it, have made further preparation.
 - c. Freshmen, wishing to be examined in French, (1) who have done more than three years of high-school work in the language, (2) who are of French-Canadian stock or have lived at some time in a French environment, (3) who can show evidence of having privately read to a considerable extent books and periodicals outside of those required in the course, (4) or who have unusual scholastic records and wish to be exempted from a language course to have their program free for other work.
 - d. Freshmen, wishing to be examined in Spanish, whose previous record based on study and environment is deemed adequate by the Department.

THE FIRST TWO YEARS

The first two years of the student's college course constitute a unified period. On the one hand, they are in a very real sense a continuation of his preparatory school training and have the same general purpose of providing him some familiarity with the general streams of human knowledge, a broad and firm foundation of culture, and an adequate background for an understanding and appreciation of the needs of his community as well as competence to participate intelligently in its varied life. On the other hand, the first two years reach out toward the period of concentration with which the last two years are primarily occupied. They are designed to help the student to see his chosen field in perspective, but they also seek to give him the necessary preparation for undertaking the studies of a distinctly advanced nature. In brief, the first two years are definitely exploratory. Their objective is dispersion rather than concentration, intelligence over an extended area of knowledge rather than proficiency in one particular region.

With these general principles in mind, freshmen are advised to elect courses from each of the following groups:

I. **English.** English 1 and English 2 or 18 are definitely required unless the student is admitted by the department to a more advanced course.

II. **Foreign Language:** Greek, Latin, French, Spanish, German. Students who pass a reading test in a foreign language may be excused from this requirement.

III. **Social Studies:** Social Science 1, 2, American History, Ancient Civilization, European History, Modern Society, and Western Civilization. Students who do not wish to take further work in History may satisfy the social science requirement for the degree in the sophomore year by taking a basic course in Economics, Government, or Sociology.

IV. **Natural Science and Mathematics:** The requirements in this division may be satisfied by approved courses of six or eight hours of natural science or mathematics.

Military Science and Physical Training are required of all men unless they are physically disqualified.

Selected students may take advanced courses in Infantry during their junior and senior years. Six credit hours for the degree of Bachelor of Arts are granted for two years of advanced Military.

Physical Education and Hygiene must be taken by all women. For those students taking Military Science or Hygiene the maximum registration is fifteen hours *exclusive* of these two subjects; for others the maximum registration is sixteen hours. Individual guidance is given to all freshmen in the selection of their courses.

During the sophomore year the student continues his general interest in exploration, but he naturally becomes more definitely concerned over the selection of his major subject. He should, therefore, add at least two new major fields of learning to those taken during the freshman year. This should insure for him some likelihood of a wise decision regarding his field of concentration because he will have had some experience in at least six different fields. Not more than six hours may normally be taken in one subject in either semester of the sophomore year. At the same time it is frequently wise to take more than one course in a prospective major subject, in order to test one's actual interest and to satisfy preliminary requirements for advanced work.

During the first two years a student must show evidence of ability to pursue upper-division courses successfully. Work of C grade or above will be interpreted as satisfactory. *Students with records consistently below this standard will be advised to withdraw from the University at the end of their sophomore year.*

Throughout the freshman and sophomore years the student is under the general supervision of the Dean of the College. The Dean is assisted in this capacity by a faculty committee of freshman-sophomore advisers whose purpose is to give each student individual guidance and attention during this period. A member of this committee will be assigned to each student as his adviser early in his freshman year.

THE LAST TWO YEARS

At some time during the second semester of the sophomore year, the student, in conference with the Dean, selects his major subject or field of chief academic interest, and outlines with his major instructor a tentative curriculum for his two remaining years. This special field is chosen without reference to departmental boundaries, though it may coincide with some department or special curriculum in the College. The department in which the major subject chiefly falls becomes for administrative purposes the student's major department, and the head of that department is his major instructor. The latter is responsible for the student before the faculty and must approve the student's registration.

At the same time the student selects his major adviser. This is regularly either the major instructor or another member of the department whom he and the student agree upon, subject to the approval of the dean. Besides assisting the student in outlining his curriculum, the major adviser also directs his pursuit of it, recommends or approves all changes made in it, and acts as the student's registering officer.

The major curriculum is the nucleus of related courses selected by the student as representing his chief field of interest or major subject. It is restricted to a maximum of twenty-four and a minimum of eighteen hours in the junior and senior years, but it is expected that the remaining courses will be chosen with reference to their affinity with it, except as certain otherwise unrelated courses are recognized as desirable for all students on account of their cultural or practical value. No elementary or introductory courses may be included in the major curriculum, though such exploratory courses may be taken, with the major adviser's approval. In general, it is assumed that upperclass students will be engaging themselves with courses of an advanced nature which will toughen their intellectual fibre and furnish a real test of their abilities.

Seniors shall be required to continue work in their major subject through their senior year.

COMPREHENSIVE EXAMINATIONS

In the spring semester of the senior year, major students in some departments take comprehensive examinations in their major subject. The purpose of these examinations is to provide the student with an opportunity to demonstrate his knowledge of the salient features of his general field of study. It aims to make clear the unity of the field as a whole. It seeks definitely to counteract the easy tendency to separate courses one from another. It is, therefore, designed in such a way as to develop perspective and to encourage organization of materials as well as accuracy and range of knowledge. The student is thus able to evaluate his ability in the field of his major interest and to make a smooth transition to his professional and graduate work. A satisfactory grade on the comprehensive examination is a requirement for the degree.

HONORS PROGRAM

A program of Honors Work for the benefit of the superior student has been adopted by the College of Arts and Sciences. The purpose is to encourage exceptional ability by affording unusual opportunities for the exercise of that ability and by rewarding high achievement with appropriate distinction. The opportunities are intended especially to stimulate originality, intellectual curiosity, and resourcefulness, and they require a large measure of self-reliance. The Honors courses do not involve the attending

of classes, but are conducted by the tutorial method, according to which the student does his work under the supervision of a tutor, whom he meets in conference at regular intervals for advice and informal discussion. The rewarding distinction, which is the highest offered by the College of Arts and Sciences, is conferred upon the successful completion of all or a sufficient part of the Honors program, in the form of graduation Honors, which are of three grades: Honors, High Honors, Highest Honors.

Application for admission to any course in the Honors program should be made to the Dean of the College of Arts and Sciences. As a rule, a general average of B in the whole of the applicant's previous record will be required for admission, but each applicant will be judged according to his individual merit, especially as regards his possession of the particular qualities, such as initiative and self-reliance, which are deemed essential to success in Honors work.

The Honors program is divided into two parts: (1) Preparation for Honors Work, in the freshman and sophomore years, and (2) Honors Work, in the junior and senior years. Descriptions of the Honors Courses will be found on page 212.

PROFESSIONAL CERTIFICATES FOR TEACHERS

The Professional Secondary Certificate is granted for a period of two years to graduates of the College who have completed not less than eighteen semester hours in education, not more than six semester hours of which may be in the field of psychology. Courses recommended for satisfaction of this requirement are as follows: General Psychology, History of Education, Educational Measurements, Methods of Teaching in Secondary Schools, and Principles of Secondary Education or Practice Teaching. In addition, candidates are expected to complete a major and at least one minor teaching subject. Usual combinations are mathematics and science, French and Latin, English and history, English and French, history and Latin, English and Latin, and French and history. To be satisfactory, all of these required courses, both academic and professional, must be completed with a grade of C or better.

BANGOR THEOLOGICAL SEMINARY

Students in the College of Arts and Sciences have the privilege of registering for courses in Bangor Theological Seminary not to exceed five credit

hours per semester, without payment of tuition charges, and a like privilege is extended by the College to students in the Seminary. The courses for which students may register must be approved by the Dean of the College, the President of the Seminary, and the instructor in the subjects concerned in both institutions. Such work may be counted toward graduation; but in order to avoid duplication of credits it is understood that all courses at the University of Maine which have been used by Seminary students for graduation credit at the Seminary shall be cancelled at the University in case the student is admitted to junior or senior standing as a candidate for the Bachelor of Arts degree.

SUMMER SESSION

Before students of the College of Arts and Sciences pursue Summer Session courses in any institution other than the University, they must gain the approval of the Dean in writing. A marked bulletin of the institution should be left at the Dean's office with a note requesting degree credit for the selected courses.

MARINE LABORATORY AT LAMOINE

The University, through the Zoology Department of the College of Arts and Sciences, offers a six-weeks course in marine invertebrate zoology at the Lamoine laboratory on Frenchman's Bay. The students collect and study the wide variety of types from every phylum of the invertebrate group. Course work is offered for both undergraduate and graduate credit. The nature of the course makes it possible for the student to receive the type of instruction which will best serve his or her special interest.

SPECIMEN CURRICULA

The following outlines of specimen curricula will provide the student with a general idea of the character of preparation recommended for various professions. They are suggestive and tentative rather than fixed or prescribed. The student's own interests and aptitudes will naturally determine to some extent his choice of subjects. Though only a few of the more important curricula in the College of Arts and Sciences are here given, there are a large number of others which may be procured by writing to the Dean of the College.

Specimen Major Curriculum for Premedical Studies**Freshman Year**

FALL SEMESTER

SPRING SEMESTER

	<i>Hrs.</i>		<i>Hrs.</i>
Eh 1 English	3	Eh 2 English	3
*Gm 1 German	4	*Gm 2 German	4
Mt 1 Military Training.....	1½	Mt 2 Military Training.....	1½
My 1 Modern Society (or Cv 1 Western Civilization)	3	My 2 Modern Society (or Cv 2 Western Civilization)	3
Pt 1 Physical Education	—	Pt 2 Physical Education.....	—
†Zo 3 Animal Biology.....	4	†Zo 4 Animal Biology	4

* Two years of a modern foreign language, preferably German, are usually required for medical school admission, and should lead to a reading knowledge of the subject.

† Candidates who plan to enter medical school in two years and those who have a special interest in chemistry should take General Chemistry during the first year, with or without General Zoology. To fulfill the requirements of the American Medical Association, Organic Chemistry and Physics must be taken the second year. These, together with Comparative Anatomy or General Zoology, if the latter was not taken the first year, make a very heavy program. A four-year program leading to a B.A. degree is thus desirable and in most cases necessary. Candidates for admission to medical school should therefore be familiar with the requirements of several medical schools before planning their first-year program.

Sophomore Year

	<i>Hrs.</i>		<i>Hrs.</i>
Ch 1a General Chemistry.....	4	Ch 2a General Chemistry	4
Gm 3 German	3	Gm 4 German (†Gm 16, Scientific German)	3-2
My 3 Modern Society (or Cv 3 Western Civilization)	3	My 4 Modern Society (or Cv 4 Western Civilization)	3
Mt 3 Military Training	2	Mt 4 Military Training	2
Pt 3 Physical Education	—	Pt 4 Physical Education.....	—
Zo 15 Comparative Anatomy	4	Zo 16 Comparative Anatomy ...	4

Junior Year

FALL SEMESTER

SPRING SEMESTER

	<i>Hrs.</i>		<i>Hrs.</i>
Ch 51 Organic Chemistry	5	Ch 52 Organic Chemistry	5
Cp 39 The Literature of Social Change (or Eh 45 Contemporary Literature)	3	Cp 40 The Literature of Social Change (or Eh 46 Con- temporary Literature) ..	3
Ps 1a General Physics	4	Ps 2a General Physics	4
Py 1 General Psychology	3	Py 2 General Psychology	3

Senior Year

	<i>Hrs.</i>		<i>Hrs.</i>
Bt 45 Genetics (or Social Science)	3	Ch 40 Quantitative Analysis ...	4
Ch 31 Qualitative Analysis	5	Elective (preferably Social Science)	3-5
Zo 37 Physiology	4	Zo 18 Vertebrate Embryology ..	4
Zo 41 Histology	3	Zo 38 Physiology	4

‡ With the permission of the German Department.

Five-Year Curriculum in Liberal Arts and Nursing

College of Arts and Sciences in coöperation with
Central Maine General Hospital, Lewiston
Eastern Maine General Hospital, Bangor
Maine General Hospital, Portland

First Year

University of Maine

	<i>Hrs.</i>		<i>Hrs.</i>
Ch 5 Inorganic Chemistry	4	Bc 4 Organic Chemistry	4
Eh 1 Freshman Composition	3	Eh 2 Freshman Composition ..	3
Fr 3 or 5 French	3-4	Fr 4 or 6 French	3-4
Pe 1 Physical Education	0	Pe 2 Physical Education	0
Py 1 General Psychology	3	Py 2 General Psychology	3
Zo 3 Animal Biology	4	Zo 12 Anatomy and Physiology	5

Summer Session, six weeks in School of Nursing

Second Year

University of Maine

FALL SEMESTER

SPRING SEMESTER

	<i>Hrs.</i>		<i>Hrs.</i>
Bc 5 Biochemistry	4	By 10 Sanitation and Health...	2
By 1 Bacteriology	2	He 64 Nutrition	3
By 3 Bacteriology	3	Pe 4 Physical Education.....	0
Pe 3 Physical Education	0	Ps 4 Descriptive Physics.....	3
Py 67 Child Psychology	3	Py 72 Mental Hygiene	3
Sy 1 Sociology	3	Sy 2 Sociology	3

Third Year

School of Nursing, July 1-July 1

Fourth Year

School of Nursing, July 1-Aug. 31

Fifth Year

University of Maine

	<i>Hrs.</i>		<i>Hrs.</i>
Eh 9 Modern Literature.....	2	Es 2a Economics	3
Es 1a Economics	3	Zo 18 Embryology	4
Zo 41 Histology	3	Zo 56n Seminar	2
Zo 55n Seminar	2	Electives	5-6
Electives	5-6		

School of Nursing**General Distribution of Time**

Preliminary period	98-120 days
Medical Nursing	150 "
Surgical Nursing	226 "
Pediatrics	90 "
Operating Room	60 "
Diet Kitchen	28 "
Obstetrics	90 "
Formulae Room	7 "
Electives	142-156 "

Specimen Major Curriculum for Pre-Legal Studies**Freshman Year**

FALL SEMESTER

SPRING SEMESTER

	<i>Hrs.</i>		<i>Hrs.</i>
Eh 1 Freshman Composition . . .	3	Eh 2 Freshman Composition . .	3
Hy 3 United States History . . .	3	Hy 4 United States History . .	3
Mt 1 Military Training	1½	Mt 2 Military Training	1½
My 1 Modern Society	3	My 2 Modern Society	3
Pt 1 Physical Education	—	Pt 2 Physical Education	—
*Foreign Language	3	*Foreign Language	3
Natural Science	3	Natural Science	3

Sophomore Year

	<i>Hrs.</i>		<i>Hrs.</i>
Eh 7 Second-Year Composition .	3	Eh 8a Second-Year Composition	3
Gt 1 Introduction to Govern- ment	3	Gt 2 Introduction to Govern- ment	3
Mt 3 Military Training	2	Mt 4 Military Training	2
My 3 Modern Society	3	My 4 Modern Society	3
Pt 3 Physical Education	—	Pt 4 Physical Education	—
Py 1 Psychology	3	Py 2 Psychology	3
Sy 1 Principles of Sociology . . .	3	Sy 2 Principles of Sociology . .	3

Junior Year**FALL SEMESTER****SPRING SEMESTER**

	<i>Hrs.</i>		<i>Hrs.</i>
Ba 9 Accounting	3	Ba 10 Accounting	3
Eh 3 History of English Lit....	3	Eh 4 History of English Lit... 3	
Gt 33 Municipal Government....	3	Es 52 Business and Government	
Gt 51 Public Administration	3	(or Ba 60, Personnel	
Hy 17 History of England.....	3	Management)	3
		Gt 32 State and Local Govern-	
		ment	3
		Hy 18 History of England.....	3

Senior Year

	<i>Hrs.</i>		<i>Hrs.</i>
Ba 51 Corporation Finance (or		Ba 54 Investments and Invest-	
Ba 53, Money and		ment Banking	3
Banking)	3	Es 74 Labor and Government	
Es 71 Public Finance (or Es 73,		(or Es 80, American	
Labor Problems or Ba 55,		Labor History or	
Business Law)	3	Ba 56, Business Law) ..	3
Gt 73 International Relations....	3	Gt 74 International Relations..	3
Gt 83 American Constitution....	3	Gt 84 American Constitution... 3	
Py 75 Social Psychology.....	3	Sh 4 Debate	2
Sh 1 Speech	2		

* To be continued until the student has passed his reading test.

Curriculum in Journalism**Freshman Year**

FALL SEMESTER

		<i>Hrs.</i>
Cv	1 Western Civilization (or Hy 5, Survey of Western Europe)	3
Eh	1 Freshman Composition	3
Mt	1 Military Training (or Pe 21, Hygiene)	2-1½
My	1 Modern Society (or Hy 3, United States History)	3
	Foreign language	3-4
	Natural Science or Mathematics	3-4
Pt	1 Physical Education	—

SPRING SEMESTER

		<i>Hrs.</i>
Cv	2 Western Civilization (or Hy 6, Survey of Western Europe)	3
Eh	2 Freshman Composition	3
Mt	2 Military Training	1½
My	2 Modern Society (or Hy 4, United States History)	3
	Foreign language	3-4
	Natural Science or Mathematics	3-4
Pt	2 Physical Education	—

Sophomore Year

		<i>Hrs.</i>
Cv	3 Western Civilization (or Hy 5, Survey of Western Europe)	3
Eh	3 History of English Literature	3
Eh	23 Newswriting	3
Mt	3 Military Training	2
My	3 Modern Society (or Hy 3, United States History)	3
Pl	3 Philosophy (or foreign language)	3
Pt	3 Physical Training	—
	Elective	2-3

		<i>Hrs.</i>
Cv	4 Western Civilization (or Hy 6, Survey of Western Europe)	3
Eh	4 History of English Literature	3
Eh	24 Newswriting	3
Mt	4 Military Training	2
My	4 Modern Society (or Hy 4, United States History)	3
Pl	4 Philosophy (or foreign language)	3
Pt	4 Physical Training	—
	Elective	2-3

Junior Year

FALL SEMESTER

	<i>Hrs.</i>
Eh 25 The Newspaper in the 20th Century.....	3
Eh 45 Contemporary American Literature	3
Gt 33 Municipal Government and Administration	3
Hy 67 American Diplomacy.....	3
Elective	3

SPRING SEMESTER

	<i>Hrs.</i>
Eh 28 Departmental or Feature Writing	3
Eh 46 Contemporary European Literature	3
Gt 32 State Government.....	3
Hy 68 American Diplomacy....	3
Elective	3

Senior Year

	<i>Hrs.</i>		<i>Hrs.</i>
Eh 79 The Newspaper as a Factor in International Relations.	3	Eh 30 The Country Newspaper.	3
Eh 57 Shakespeare	3	Eh 58 Shakespeare	3
Gt 73 International Relations ...	3	Gt 74 International Relations .	3
Es 55, 69, 71, or 53.....	3	Es 54, 56, 72, or 60.....	3
Electives	3	Electives	3

Specimen Major Curriculum for Business Administration***Freshman Year**

	<i>Hrs.</i>		<i>Hrs.</i>
Cv 1 Western Civilization.....	3	Cv 2 Western Civilization	3
Eh 1 Freshman Composition....	3	Eh 2 Freshman Composition ..	3
Ms 23 Mathematical Analysis or Ps 3 Descriptive Physics... 3		Ms 24 Mathematical Analysis or As 10 Descriptive	
Mt 1 Military Training	1½	Astronomy	3
My 1 Modern Society	3	Mt 2 Military Training	1½
Pt 1 Physical Training.....—		My 2 Modern Society.....	3
†Foreign Language.....3-4		Pt 2 Physical Education.....—	
		†Foreign Language.....3-4	

* For further information concerning requirements and courses in Business Administration, see page 190.

† To be continued until the student has passed his reading test.

Sophomore Year**FALL SEMESTER**

		<i>Hrs.</i>
Ba	9 Accounting	3
Cv	3 Western Civilization.....	3
Gt	1 Introduction to Government	3
Mt	3 Military Training.....	2
My	3 Modern Society or Es 1a Principles of Economics..	3
Pt	3 Physical Education	—
Py	1 General Psychology	3

SPRING SEMESTER

		<i>Hrs.</i>
Ba	10 Accounting	3
Cv	4 Western Civilization	3
Gt	1 Introduction to Government	3
Mt	4 Military Training.....	2
My	4 Modern Society or Es 2a Principles of Economics..	3
Pt	4 Physical Education.....	—
Py	2 General Psychology.....	3

Junior Year

	<i>Hrs.</i>		<i>Hrs.</i>
Ba 51 Corporation Finance.....	3	Ba 64 Investments and Invest- ment Banking or Es 64 International Trade and Finance	3
Ba 53 Money and Banking.....	3	Es 52 Business and Government	3
Es 73 Labor Problems.....	3	Hy 60 Economic and Social History of the United States	3
Hy 59 Economic and Social History of the United States	3	Ms 20 Statistics	3
Ms 19 Statistics	3	Py 12 Advertising	3

Senior Year

	<i>Hrs.</i>		<i>Hrs.</i>
Ba 55 Business Law.....	3	Ba 56 Business Law.....	3
Ba 59 Business Management and Policy	3	Ba 60 Personnel Management..	3
Eh 25 The Newspaper in the 20th Century.....	3	Ba 96 Seminar	2
Eh 39 Literature of Social Change	3	Eh 40 Literature of Social Change	3
Es 71 Public Finance.....	3	Es 62 Business Cycles or Es 76 Public Utilities.....	3
		Gt 32 State Government.....	3

**Specimen Major Curriculum for Pre-Professional Preparation
for Social Service Work**

Freshman Year

FALL SEMESTER

		<i>Hrs.</i>
Eh	1 Freshman Composition	3
Mt	1 Military Training	1½
My	1 Modern Society	3
Pe	1 Physical Education	—
Zo	3 Animal Biology	4
Zo	5 Hygiene (girls)	2
	Foreign Language	3-4

SPRING SEMESTER

		<i>Hrs.</i>
Eh	2 Freshman Composition	3
Mt	2 Military Training	1½
My	2 Modern Society	3
Pb	2 Public Speaking	2
Pe	2 Physical Education	—
Zo	4 Animal Biology	4
	Foreign Language	3-4

Sophomore Year

		<i>Hrs.</i>
Cp	39 The Literature of Social Change (or Eh 45 Contemporary Literature)	3
Gt	1 Introduction to Government	3
Mt	3 Military Training	2
My	3 Modern Society	3
Py	1 General Psychology	3
Sy	1 Principles of Sociology	3
	*Foreign Language	

		<i>Hrs.</i>
Cp	40 The Literature of Social Change (or Eh 46 Contemporary Literature)	3
Gt	2 Introduction to Government	3
Mt	4 Military Training	2
My	4 Modern Society	3
Py	2 General Psychology	3
Sy	2 Principles of Sociology	3
Sy	20 The Field of Social Work	3
	*Foreign Language	

* If reading test has not been passed.

Junior Year

		<i>Hrs.</i>			<i>Hrs.</i>
Eh	71 American Literature	3	Eh	72 American Literature	3
Es	33 Labor Problems	3	Sy	52 Child Welfare	3
Sy	41 Marriage and the Family	3	Sy	62 Criminology	3
Sy	61 Social Pathology	3	Sy	84 Race Relations	3
Sy	65 Urban Sociology	3		Electives	

Senior Year**FALL SEMESTER****SPRING SEMESTER**

	<i>Hrs.</i>		<i>Hrs.</i>
Gt 51 Public Administration.....	3	Ba 60 Personnel Management ..	3
Py 71 Abnormal Psychology.....	3	Py 72 Mental Hygiene	3
Sy 57 Group Work Leadership..	3	Sy 86 Social Change	2
Sy 83 Population	3	Sy 96 Sociology Seminar.....	2
Sy 95 Sociology Seminar.....	2	Electives	5
Electives	2		

Specimen Curriculum for Majors in Chemistry**First Year**

	<i>Hrs.</i>		<i>Hrs.</i>
Ch 1 General Chemistry.....	4	Ch 2 General Chemistry.....	4
Eh 1 Freshman Composition....	3	Eh 2 Freshman Composition ..	3
Gm 19 German for Chemists	3	Gm 20 German for Chemists....	3
Ms 1-3 Trigonometry and College Algebra or Ms 11, Fresh- man Mathematics	4	Ms 6 Analytic Geometry or Ms 12, Freshman Mathematics	4
Mt 1 Military Training	1½	Mt 2 Military	1½
Pt 1 Physical Education	—	Pt 2 Physical Education	—

(Select a registration of 16-17 hours from the courses listed for the second, third, and fourth years)

Second Year

	<i>Hrs.</i>		<i>Hrs.</i>
Ch 41 Quantitative Analysis	4	Ch 32 Micro-Qualitative Analysis	5
Gm 21 German for Chemists.....	3	Gm 22 German for Chemists ..	3
Ms 7 Differential Calculus*.....	5	Ms 8 Int. Calculus*	5
Py 1 General Psychology†.....	3	Py 2 General Psychology†....	3
Es 1 Principles of Economics‡. 3		Es 2 Principles of Economics‡ 3	
Sy 1 Principles of Sociology‡.. 3		Sy 2 Principles of Sociology‡ 3	
Pb 1 Public Speaking	2	(Elective)	2-3
Mt 3 Military Training	2	Mt 4 Military Training	2
Pt 3 Physical Education	—	Pt 4 Physical Education	—

Third Year

	<i>Hrs.</i>		<i>Hrs.</i>
Ch 51 Organic Chem.....	5	Ch 51 Organic Chem.....	5
Ps 1 General Physics*	5	Ps 2 General Physics*.....	5
Ed 51 History of Ed. in U.S.†..	3	Eh Technical Composition*..	2
Ed 59 Principles of Secondary		Ed 78 Prin. and Methods of	
Ed.†	3	Teach. in Sec. Schools†..	3
Es 9 Accounting‡	3	Py 66 Educational Psychology†	3
Es 51 Corporation Finance‡.....	3	Es 10 Accounting‡	3
Elective	3	Es 72 Labor Problems‡.....	3

Fourth Year

	<i>Hrs.</i>		<i>Hrs.</i>
Ch 71 Physical Chem.....	5	Ch 72 Physical Chem.	5
Ch Elective	3	Ch 86 Seminar	2
Ps 17 Intermediate Physics*	3	Ch Elective	3
Ed 65 Educational Measure-		Ps 18 Intermediate Physics*...	3
ments†	3	Es Elected‡	3
Ch 97 Methods Teach. Chemistry†	2	Sy Elected‡	3
Ed 29 Practice Teaching‡.....	3	Elective	
Sy Elected‡	3		
Es Elected‡	3		
Elective	3		

* Preparation for graduate study.

† Teacher training.

‡ Commercial option.

All chemistry courses required.

Courses of Instruction

Courses designated by an odd number are given in the fall semester; those designated by an even number, in the spring semester.

Courses numbered 1-50 are for undergraduates only; courses numbered 51-100 are primarily for upperclassmen and graduates; courses numbered above 100 are primarily for graduates.

When a course is offered in the first semester and also repeated in the second, it is designated by two numbers, the second of which is in parenthesis [e.g., 1 (2)].

When a dash is used between the two numbers (e.g., 1-2), both semesters must be taken to obtain credit; when a semi-colon is used (e.g., 1; 2), the first semester may be taken by itself, but the second cannot be taken unless the first semester is taken previously; when a period is used (e.g., 1.2), either semester may be taken for credit.

INTRODUCTION TO THE CURRICULUM

The tabular arrangement of courses given on the following page serves to give the student a general view of the academic organization of the College of Arts and Sciences. All graphic representations are to some extent arbitrary and misleading, yet our tabulation may help the student to observe the general outline of academic interests in the College as well as something of the affinity which the various subjects bear to one another. It is obvious at once, for example, that languages and literature belong to one group, but one gains some realization of the inter-relationship of languages and the scope of linguistic study by noting how the ancient languages are followed by the modern languages and these in turn by Comparative Literature and English with its various applications. The importance of arrangement is equally great, if not so readily apparent, in the case of the other divisions. Growing familiarity with these fields will make it increasingly clear that one subject by its very nature passes inevitably into another. The entering student will do well to study this table in making his first general acquaintance with the curriculum as a whole. The upperclassman will occasionally wish to view his education in a perspective beyond that of his own previous academic experience. It is hoped that this table will act sometimes as a corrective for too specialized training, sometimes as a visual demonstration of the essential unity of all knowledge, sometimes as a device for calling attention to intimate cultural and intellectual relationships.

COLLEGE OF ARTS AND SCIENCES

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ART HISTORY

PROFESSOR HUDDILSTON

1. 2. *Masterpieces of Art.*—A general survey course covering distinctive values of art in the great periods, with special regard to architecture as a key to the spirit of the ages. Text-book, lectures, and interpretations in the art gallery. Open to all students. *Three hours a week.*

3. *Renaissance Art.*—A study of some of the important Florentine and Venetian masters; the work is pursued not only for the art history but also for the broader values of the birth of the modern world. Lectures and reports based on a study of photographs. Given in 1938-39 and alternate years. Open to all students. *Two hours a week.*

4. *Cultural America.*—A course of lectures on the relation of the fine arts to our national spirit. Designed to throw light on the history of the United States and to stimulate a broader interest in art particularly as affecting the general public of today. *Two hours a week.*

5. *Greek Art.*—An intimate examination of the principles of Greek architecture and sculpture with a view to understanding the technique and achievements of the Greeks. Lectures and study in the collection of photographs and in the art gallery. Given in 1939-40 and alternate years. Open to all students. *Two hours a week.*

7. *Chinese Culture.*—A general survey of ancient China's intellectual and aesthetic ideals as reflected in her philosophy, painting, and pottery. Not open to freshmen. Given in 1939-40 and alternate years. *Three hours a week.*

9 (10). *A Preface to Art History.*—Lectures on the periods of art following the arrangement in the art gallery. Intended for beginners who desire a brief introduction to the study of architecture, sculpture, and painting. May be taken only one semester. Reading will supplement the lectures. *One hour a week.*

ASTRONOMY

PROFESSOR WILLARD; ASSOCIATE PROFESSOR JORDAN

The courses in astronomy aim to meet the demands of students seeking a knowledge of the subject for purposes of general culture, and for technical

or professional uses. Opportunity is offered for students to acquire such information as will enable them to appreciate more fully the universe in which they live. Courses may be selected which provide instruction in theoretical astronomy and observatory practice.

10. Descriptive Astronomy.—An elementary course. The textbook is supplemented by informal lectures, illustrated by lantern slides and work in the observatory. Open to all students. *Three hours a week.* MR. JORDAN

11. Practical Astronomy.—A course arranged to meet the needs of engineering students, and consisting mainly of the theory and observations used in the conversion of time, the determination of terrestrial latitudes, and the establishment of meridian lines. Open to students who have taken Mathematics 1 and 3. *Two and one-half hours a week.* MR. JORDAN

14. Navigation.—An elementary course dealing primarily with the determination of the position of a ship at sea. The material discussed in the course forms the basis of airplane navigation during long flights. Open to students who have a working knowledge of Trigonometry. *Two hours a week.* MR. JORDAN

15; 16. General Astronomy.—Designed for students in mathematics and physics and others wishing a more complete treatment of the subject than is possible in Course 10. Recitations, lectures, solution of problems, observations with instruments in the observatory. Open to sophomores, juniors, and seniors who have had Mathematics 1. Given in 1939-40 and alternate years. *Three hours a week.* MR. JORDAN

59; 60. Practical Astronomy.—The theory and use of the astronomical transit, zenith telescope, and equatorial; accurate determination of time and latitude. Open to students who have taken Mathematics 6, 7, 8, and Astronomy 10 or 15. Given in 1940-41 and alternate years. *Three hours a week.* MR. JORDAN

CHEMISTRY

PROFESSORS BRADT, BRANN, AND BRAUTLECHT; ASSOCIATE PROFESSORS JENNESS, NOLAN, AND OTTO; MR. BOGAN; MR. MARTIN; MR. TOMLIN

The Department of Chemistry opens to the general student of the liberal arts one of the principal avenues of approach to the understanding of Nature and of the manifold complexities of life in an advanced industrial society such as ours.

For those students who wish to pass beyond a general appreciation of chemical science and to attain the training necessary for entering one or other of the numerous occupations for which more advanced work in chemistry is prerequisite, the following vocational possibilities are suggested as representative:

a. *Industry and Municipal Service.* Graduates in chemistry are often in demand for non-laboratory positions in industries manufacturing or employing chemicals; positions as research librarians, purchasing agents, secretaries, personnel workers, salesmen, advertisers. They are also employed in laboratory positions as analysts for police departments, water works, gas companies, ice plants, and producers of fertilizers, insecticides, drugs, flavors, and many other commodities.

b. *Government Bureaus.* Many arts college graduates trained in chemistry are now holding positions in various government agencies, such as Patent Office, the Bureau of Chemistry, and the Department of Agriculture.

c. *Medicine.* Training in chemistry is prerequisite for entrance to medical and dental schools, and for such positions as those of technicians in hospitals, as well as for most branches of medical research.

d. *Education.* Students interested in the teaching of chemistry in secondary schools can readily qualify for this profession by the satisfactory completion of a program arranged through the coöperation of this department with the School of Education.

Students taking chemistry as a major subject in the College of Arts and Sciences must complete satisfactorily Courses 1, 2, 32, 41, 51, 52, 71, 72, and 86. Some biological science is required, also some mathematics and physics.

1; 2. General Chemistry.—This course deals with the general principles of the science and the elements of qualitative analysis. Classroom (lectures, discussion and demonstrations), *two hours a week*; laboratory, (including recitations), *four hours a week*. One breakage card. *Four credit hours*.

MR. TOMLIN

6. Descriptive Chemistry.—A non-professional course having as its objective a survey of the relationships of chemical science to present day civilization. Students are expected to do extensive reading. This course is designed for Arts and Sciences students who will not continue in the field of chemistry. It is not acceptable as a prerequisite for any chemistry course. Lectures, *three hours a week* except that on alternate weeks one lecture is replaced by three hours of laboratory. One breakage card. *Three credit hours*.

MR. BOGAN

22. Introductory Theoretical Chemistry.—This is an introductory course in the fundamental principles of chemistry designed to prepare students for physical chemistry. It is recommended to majors in chemistry and to premedical and pre dental students as well as other students desiring a second-year elective in the Department of Chemistry. Prerequisite, Course 1, 2. Classroom, *three hours a week*. *Three credit hours*. MR. JENNESS

32. Micro-Qualitative Analysis.—Systematic theoretical and laboratory study of the fundamental principle of analysis as applied to the common cations and anions. Analysis of unknowns. Microtechnique without use of the microscope. Prerequisite, Course 1, 2. Lectures and recitations, *two hours a week*; laboratory, *eight hours a week*. Two breakage cards. *Five credit hours*. MR. OTTO

41. Quantitative Analysis.—An introductory course illustrating the fundamental principles of gravimetric, volumetric, and electrolysis methods. Prerequisite, Course 32. Classroom, *one hour a week*; laboratory, *eight hours a week*. Two breakage cards. *Four credit hours*. MR. OTTO

51; 52. Organic Chemistry.—An introductory course dealing with aliphatic and aromatic compounds. Prerequisite, Course 32 or at least C grades in Course 1, 2. Suitable for graduate credit only as a minor subject. Classroom, *three hours a week*; laboratory, *four hours a week*. Two breakage cards. *Five credit hours*. MR. BRAUTLECHT

55. Contemporary Chemistry.—A study of contemporary chemists and chemical theory. Prerequisite, Course 52. Lecture, *one hour a week*. *One credit hour*. MR. BRANN

71; 72. Physical Chemistry.—The detailed study of fundamental principles of chemistry and their application to various fields. Lecture, recitations, and laboratory. Prerequisites, Course 41 and Physics 1, 2. Calculus is very desirable. Suitable for graduate credit only as a minor subject. Classroom, *three hours a week*; laboratory, *four hours a week*. One breakage card. *Five credit hours*. MR. BRANN, MR. MARTIN

86. Journal Seminar.—A study of chemical literature and chemical methods. Prerequisite, Course 52 and senior standing. Classroom, *two hours a week*. *Two credit hours*. MR. NOLAN

97. 98. Methods of Teaching Chemistry.—A course for prospective teachers of chemistry which includes administration, supervision, costs; laboratory arrangement, equipment, maintenance and supplies; preparation of solutions, demonstration, lesson plans, testing programs; texts, laboratory manuals; grading and scoring; bibliography. Text, problems, and journal

assignments. For juniors, seniors, and graduate students. Prerequisite, Course 1, 2, or equivalent. Classroom, *two hours a week. Two credit hours.*

MR. BRAUTLECHT

Other courses in the Department of Chemistry not listed here are described under the College of Technology.

CLASSICS

PROFESSOR HUDDILSTON; ASSISTANT PROFESSOR SMITH

Greek

MR. HUDDILSTON; MR. SMITH

The work in Greek is arranged with the idea of presenting several phases of ancient culture. Such courses are offered as will prove serviceable to the student of average interests, who, not having studied the ancient languages in the preparatory school, may desire to include in his college course some work bearing on the permanent contributions of the ancient Greeks to the civilization of ancient and modern times.

At present but one year of Greek language is offered; more will be given if there is sufficient demand.

1-2. Beginning Greek.—The student reads Attic Greek from the first. Passages from Plato and the dramatists form the bulk of the course. *Four hours a week.* MR. SMITH

3. Greek Life and Culture.—A brief study of important features of the Greek legacy in art and literature. Assigned readings and lectures. Open to all students. *Two hours a week.* MR. HUDDILSTON

4. Greek Ideals.—The development of Greek thought from Homer down to the period of the Hellenistic philosophies. The social and aesthetic significance of the Greek festivals and the Athenian ideas of education and democracy receive special attention. Open to all students. *Two hours a week.* MR. HUDDILSTON

51. Greek Poetry.—A general survey which does not presuppose any knowledge of the Greek language. The main attention is given to Homer and writers of the drama; considerable reading is done in English translation. Given in 1940-41 and alternate years. *Three hours a week.*

MR. HUDDILSTON

Latin

MR. SMITH

The courses in Latin are planned with a double purpose—to give some understanding of the best that Rome achieved and to train students for high-school positions as teachers of Latin.

The first purpose is cultural. It introduces students to the forms of classic literature as exemplified by Cicero, Livy, Tacitus, and Pliny in prose, by Terence and Plautus in dramatic art, and by a selection from the masters of lyric poetry. In addition, the courses are planned to give an introduction to the thought of the leading minds at Rome with some appreciation of its permanent value, and a comprehension of the Roman Empire as a milestone in the advance of European civilization.

The courses are also designed to give such knowledge of the Latin language and methods of teaching as would be required of a well-trained secondary-school teacher.

Students who major in Latin are expected to complete at least eighteen hours of work in approved courses. These will normally be numbered higher than 22. For six of these hours two semester-courses in Greek Language and Literature, involving at least six hours of work, may be substituted.

Teacher Training. Students in the College of Arts and Sciences or the School of Education who, although not majoring in Latin, expect to offer Latin as a teaching subject should take courses 5, 6, 7, 8, 9, 10, 21, 22. Grades should be C or better in all courses.

Combined Major. Latin may be taken with another subject, linguistic or otherwise.

5. Cicero and Horace.—Reading of the *De Senectute* with some attention to Cicero's religious thought; study of the lyric poetry of Horace. *Three hours a week.*

6. Livy.—Selections from the *History of Rome*. Reading, with discussion of language and Roman history. *Three hours a week.*

7. 8. Latin Composition.—*One hour a week.*

9. Terence and Plautus.—A study of the development and characteristics of Roman comedy as seen in the *Phormio* of Terence and the *Captivi* of Plautus. *Three hours a week.*

10. Tacitus.—Reading and discussion of the *Agricola* and the *Germania*. This course involves an introduction to the history of the Roman Empire. *Three hours a week.*

21. 22. Latin Composition.—Accurate knowledge of syntax is stressed in the first semester and Latin rhetoric in the second. Either semester is open to students who have completed Latin 7, 8 or the equivalent. Essential for prospective teachers. *One hour a week.*

23. The Younger Pliny.—Life and conditions in the Roman Empire as revealed by the letters of a Roman senator of the first century. Given in 1939-40 and alternate years. *Three hours a week.*

24. Horace.—Roman life and literary criticism of the Augustan Age as revealed in the *Satires* and *Epistles*. Given in 1939-40 and alternate years. *Three hours a week.*

41. Roman Private Life.—The manners, customs, and everyday life of the Romans. Knowledge of Latin desirable but not essential. Open to the three upper classes. Given in 1940-41 and alternate years. *Three hours a week.*

51. 52. Teachers' Course.—The objectives, content, and methods of the secondary-school Latin curriculum. Discussion of principles, solution of problems, outside reading, and investigation of special topics. Given in case of adequate demand. *Three hours a week.*

62. The Latin Language.—A historical study of Latin forms and inflexions with a study of inscriptions. Given in 1940-41 and alternate years. *Three hours a week.*

ECONOMICS AND SOCIOLOGY

PROFESSORS KIRSHEN, ASHWORTH, ALLEN, AND CHADBOURNE;
ASSOCIATE PROFESSOR LAMSON; MR. HOBBAH;
MISS E. G. WILSON; MR. BURTT; MR. WHITNEY

Coöperating members of the Department:

MR. DOW, Head of the Department of History and Government

MR. NIEDERFRANK, Assistant Professor of Agricultural Economics and Farm Management

It is the purpose of Economics and Business Administration to assist the student in understanding the way in which society produces and regulates its wealth. Economics is a Social Science and as such it deals with the broad problems of any social system. Not only does the department encourage the student to select an occupation or profession, but it also wishes the student

to be a thinking citizen capable of analyzing and solving the social problems of his time. To these ends the work of the Department is directed.

Students may major in one or any combination of three fields: (1) Economics, (2) Business Administration, (3) Sociology. A minimum of eighteen hours is required, excluding elementary courses.

Students may combine a major in the department with any other of the Social Sciences: Government, History, Philosophy, and Psychology.

Specific Requirements:

Economics: Es 1a; 2a, Principles of Economics, a prerequisite for all advanced courses unless waived by the head of the Department; Es 96, Seminar, for senior majors.

Business Administration: Es 1a; 2a, Principles of Economics, a prerequisite for all advanced courses unless waived by the head of the Department; Ba 9, 10, Accounting; Ba 96, Seminar, for senior majors.

Sociology: Sy 1; 2, Principles of Sociology, a prerequisite for all advanced courses in sociology unless waived by the instructor; Sy 95, 96, Seminar, for senior majors.

Senior majors in the department are required to pass an oral comprehensive examination in the spring semester.

Economics

1a; 2a. Principles of Economics.—A study and analysis of the fundamental characteristics and institutions of modern economic society. The principles underlying the production, distribution, and consumption of wealth are considered. *Three hours a week.*

MR. ASHWORTH, MR. ALLEN, MR. HOBBAH, MR. BURTT

1b; 2b. Principles of Economics.—A short course similar to Course 1a; 2a, for students in Technology and Agriculture. *Two hours a week.*

MR. ASHWORTH, MR. HOBBAH, MR. BURTT

33. Labor Problems.—The aims, structure and methods of labor organizations as related to the problems that confront the workers in our present-day economy. This course is a prerequisite for Es 74 and Es 80. *Three hours a week.*

MR. ASHWORTH, MR. BURTT

52. Business and Government.—This course deals with the extension of government control over business activities for the purpose of social welfare, economic reform, and business recovery. Given in 1940-41 and alternate years. *Three hours a week.*

MR. BURTT

62. *The Business Cycle.*—Theories of the nature, prediction, and control of the business cycle. Given in 1940-41 and alternate years. *Three hours a week.* MR. HOBBAH

64. *International Trade and Finance.*—Theory of international exchange; free trade versus protection. Barriers to foreign trade; tariffs, bounties, embargoes, quotas, and exchange restrictions. Recent trade policies of the United States will be considered. Given in 1940-41 and alternate years. *Three hours a week.* MR. CHADBOURNE

68. *Modern Economic Systems.*—A survey of the philosophies and historical development of the economic institutions of National Socialist Germany, Fascist Italy, and Communist Russia. Given in 1939-40 and alternate years. *Three hours a week.* MR. BURTT

71. *Public Finance.*—The following topics will be considered; government activities and government expenditures, taxation and tax systems, budgets and other means of regulating and controlling government spending, and current problems of taxation. Juniors and seniors only. *Three hours a week.* MR. ASHWORTH

72. *Taxation in Maine.*—A study of taxation, expenditures, and the public debt in the state of Maine. Juniors and seniors only. *Three hours a week.* MR. ASHWORTH

74. *Labor and Government.*—A study of the fundamental relationships between state and workers in a capitalist society and of the modifications induced by the growing political power of organized labor. Special attention will be given to recent labor legislation. Prerequisites, Es 1a; 2a and Es 33. Given in 1940-41 and alternate years. *Three hours a week.* MR. BURTT

76. *Public Utilities.*—A study of those industries "affected with a public interest." Problems considered include valuation of the plant, cost of producing the service, pricing the service, the development of regulation, duties toward the public, organization and management. Given in 1939-40 and alternate years. *Three hours a week.* MR. HOBBAH

80. *American Labor Movement.*—A study and analysis of selected periods in the history of American unionism including a discussion of native working class philosophies. Comparisons will be made with the labor movements of European countries. Prerequisites, Es 1a; 2a and Es 33. Given in 1939-40 and alternate years. *Three hours a week.* MR. BURTT

91. *Development of Economic Thought.*—A survey of the economic thinking of the Canonists, Mercantilists, and Physiocrats, and of a selected

group of economists from the time of Adam Smith to the present day. The influence of the earlier ideas on contemporary economic thought, institutions, and problems is emphasized. Not offered in 1940-41. *Two hours a week.*

MR. HOBBAH

92. *Economic Theory.*—A study of contemporary price and distribution theory as a tool in economic analysis. *Three hours a week.*

MR. HOBBAH

95. 96. *Seminar.*—Required of senior majors. *Two hours a week.*

THE DEPARTMENTAL STAFF

97. 98. *Problems in Economics.*—For the advanced student capable of working by himself on some problem in the field of economics under individual guidance. Prerequisite, twelve hours of economics and permission of the staff. *Hours arranged.*

THE DEPARTMENTAL STAFF

125. *Graduate Thesis.*—*Six credit hours.*

Business Administration

9; 10. *Accounting.*—The study and practice of the principles of accounting used in business. Since the course does not presume any knowledge of double-entry bookkeeping, a considerable part of the first semester's work is devoted to fundamental principles. Balance sheets and income statements, depreciation, reserves, sinking funds, partnership, and corporation problems are the principal topics of the second semester. *Three hours a week.*

MR. CHADBOURNE

16. *Business Law.*—A study of the basic legal principles of business transactions. The nature of law, the enforcement of law, contracts, agency, and bailments are given special consideration. For juniors and seniors in Technology and Agriculture only. *Three hours a week.*

MR. KIRSHEN

51. *Corporation Finance.*—The position of the modern business corporation is studied from the financial point of view. Corporate securities, intercorporate relations, underwriting, financial plans, management and control are a few of the basic problems considered. *Three hours a week.*

MR. KIRSHEN

53. *Money and Banking.*—The monetary and banking systems of the United States and other countries; special emphasis on the relation of banking to business. Juniors and seniors only. *Three hours a week.*

MR. CHADBOURNE

54. Investments.—The course deals with the selection of investments, with a study of the proper types of investments for dependents, the business and professional classes, and institutions. The different types of securities and their relative merits are analyzed. An investigation is also made of the social and practical aspects of the investment banking business. Suggested preparation, Es 1a; 2a, Ba 51 and 53. Given in 1939-40 and alternate years. *Three hours a week.* MR. CHADBOURNE

55; 56. Business Law.—This course is more advanced than Course 16 and includes, in addition, damages, negotiable instruments, guaranty and suretyship. Seniors only. *Three hours a week.* MR. KIRSHEN

57. Trust and Corporation Policies.—A study of the combination movement, the anti-trust laws, and the part played by the corporation. Present tendencies in American policies will be considered. Not offered in 1940-41. *Three hours a week.* MR. KIRSHEN

59. Business Management and Policy.—An analysis of the functions of management; the formulation and execution of business policy. Seniors only. *Three hours a week.* MR. HOBBAH

60. Personnel Management.—A course on the selection, training, and management of personnel in private and public business. Designed for the student interested in administration, office management, or personnel work in education, business, engineering, public service, and other fields. Seniors only. *Three hours a week.* MR. DOW

95. 96. Seminar.—Required of senior majors. *Two hours a week.* THE DEPARTMENTAL STAFF

97. 98. Problems in Business Administration.—For the advanced student capable of working by himself on some problem in the field of business administration under individual guidance. Prerequisite, twelve hours of business administration and permission of the staff. *Hours arranged.* THE DEPARTMENTAL STAFF

125. Graduate Thesis.—*Six credit hours.*

Sociology

The sociology curriculum focuses the student's attention upon social relationships as phenomena capable of objective analysis. This is achieved through a study of (1) structure and function of society, as observed in social groups, institutions, codes, communities, and strata; (2) the dynamics of social change, as found in invention, cultural diffusion, and population

trends; and (3) social disorganization, as reflected in dependency, crime, and community breakdown.

Sociology courses serve as useful background for students planning to enter (1) public social service work, as in state, county, or city welfare departments and city managership; (2) private social work, as in family welfare and child-care agencies; (3) probation and crime prevention; (4) public-health nursing and sanitary engineering; (5) youth-serving groups; (6) social research; and (7) social science teaching. A specimen curriculum in preprofessional preparation for social work appears on page 179 of this catalog.

Students majoring in sociology are required to take Sy 1; 2 and a minimum of eighteen hours including the Sociology Seminar, Sy 95, 96.

1; 2. *Principles of Sociology.*—An introductory course furnishing basic data and points of view concerning the structure and functioning of human societies. Communities, groups, races, codes, institutions, and social processes are considered. Prerequisite for other courses unless otherwise specified. *Three hours a week.*

MR. LAMSON, MISS WILSON, MR. NIEDERFRANK, MR. WHITNEY

20. *The Field of Social Work.*—An examination of the theory and practice of social work, public and private; its history and development; its basic philosophies; its chief types: psychiatric, medical, family case, and group work; its objectives and methods; its present trends. Social work as a profession is discussed in relation to courts, clinics, schools, hospitals, and settlements. Visiting lecturers and field trips. Prerequisite, Sy 1; 2 or permission of instructor. Offered in 1940-41 and alternate years. *Three hours a week.*

MR. WHITNEY

24. *Rural Sociology.*—A general course in the study of rural life. Subjects to be considered are standards of living and welfare of rural people; rural population; farm tenancy; the town and village; rural organizations and rural leadership; and the probable sociological effect of the adjustment of agricultural production, soil conservation, resettlement and other governmental measures on rural life. This course is offered as Fm 24 in the Department of Agricultural Economics and Farm Management. *Three hours a week.*

MR. NIEDERFRANK

41. (42). *Marriage and the Family.*—A course designed (1) to reveal the basic nature of these social institutions; (2) to show the specific trends which they are undergoing; and (3) to prepare for intelligent participation in family life. Courtship, mate selection, marriage preparation, husband-wife and parent-child relationships are studied. Juniors and seniors only. *Three hours a week.*

MR. LAMSON

52. Child Welfare.—An examination of the problems of the dependent and neglected child, the illegitimate child, the child offender, and the child in need of special care. Methods of care and agencies of treatment, public and private, are discussed. The general problem of juvenile delinquency is reviewed. Visiting lecturers and field trips. Prerequisite, Sy 20 or permission of the instructor. Offered in 1939-40 and alternate years. *Three hours a week.*

MR. WHITNEY

57. Group Work Leadership.—The study of the principles and methods of group work with reference to clubs and classes in character building agencies, settlements, schools and camps, and the principles of leadership of such voluntary groupings. Methods of program planning, the evaluation of activities frequently found on group programs, and the interaction of group and individual are considered. Prerequisites, General Psychology and Sy 1; 2. *Three hours a week.*

MISS WILSON

61. Social Pathology.—A survey of typical varieties of social maladjustment including: desertion, divorce, illegitimacy, prostitution, poverty and dependency, unemployment, occupational accidents and disease, old age, mental disease and defect, suicide, and community disorganization. Field trips. Prerequisite, Sy 1; 2 or permission of the instructor. *Three hours a week.*

MR. LAMSON

62. Criminology.—A study of the characteristics, causes, and treatment of crime, including mental, physical, economic, and social factors; case studies of juvenile delinquents and criminals; the relation of race, nationality, age, and sex to crime; theories and forms of punishment and rehabilitation; methods of crime prevention. Field trips to jails and prisons. Prerequisite, Sociology 1; 2 or permission of instructor. *Three hours a week.*

MR. LAMSON

65. Urban Sociology.—A study of city life and some of its problems. The role of the city and urbanization in civilization; the effects of urban environment upon social institutions and codes; rural-urban contrasts in health, crime, religion, education, personal and social disorganization; ecological areas within the metropolitan region; housing; recreation; and mobility are considered. Field trips. Prerequisite, Sociology 1, 2 or permission of instructor. Given in 1939-40 and alternate years. *Three hours a week.*

MR. WHITNEY

83. Population.—A study of the factors involved in the composition, growth, and control of population. Birth and death rates, natural selection, quality of peoples, eugenics, theories of population, migration, and population

pressure are considered. Prerequisite, Sy 1; 2 or permission of the instructor. Offered in 1940-41 and alternate years. *Three hours a week.*

MR. WHITNEY

84. Race Relations.—A general survey of race problems, including the status of minorities, racial intermarriage, conflict and accommodation between racial and ethnic groups, race in relation to nationalism, race prejudice, and assimilation. Prerequisite, Sy 1; 2 or permission of the instructor. Offered in 1940-41 and alternate years. *Three hours a week.* MR. LAMSON

86. Social Change.—Analysis of the basic processes underlying planned and unplanned changes that occur in human society. Theories of geographic, racial, and cultural determinism; ideas of progress and the sociology of invention are considered with special reference to changes in the United States. Prerequisite, Sy 1; 2 or permission of the instructor. Offered in 1941-42 and alternate years. *Two hours a week.* MR. LAMSON

95. 96. Sociology Seminar.—Required of senior majors. *Two hours a week.* THE DEPARTMENTAL STAFF

97. 98. Problems in Sociology.—For the advanced student capable of working by himself on some problem in the field of sociology under individual guidance. Prerequisite, twelve hours of sociology and permission of the staff. *Hours arranged.* THE DEPARTMENTAL STAFF

125. Graduate Thesis.—*Six credit hours.*

ENGLISH LITERATURE AND COMPOSITION

PROFESSORS ELLIS, TURNER, AND SMALL; ASSOCIATE PROFESSOR ASHBY;
ASSISTANT PROFESSORS SCAMMAN, CROSBY, FLEWELLING, COGGESHALL,
AND WHITNEY; MR. REYNOLDS; MRS. CRANDON; DR. WENCE;
DR. SANDERLIN; MR. HAWTHORNE; MISS BAXTER;
MISS OLIVER

Major subjects may be selected in English literature, American literature and history, journalism or creative writing, comparative literature, or dramatic literature. A specimen curriculum in journalism may be found on page 176; others may be had upon request.

The major field may likewise combine courses in English and in some other subject, provided that unity exists between them. Obvious examples are English and history, or music, or speech, or sociology, or any foreign literature.

Students preparing for library work or employment with publishing houses should become acquainted with modern foreign languages and European and contemporary literature. English majors planning to enter the civil service, social service work, salesmanship, advertising, or professional schools in theology or law should build up a strong supporting minor in the social sciences: economics, government, history, and sociology; and in psychology. For all students majoring in English, an acquaintance with English and American history, philosophy, public speaking, and elementary psychology is recommended. English literature majors are required to take Hy 17, 18 or pass an examination in English History, set by the English Department.

Students intending to pursue major programs in English should have completed the prerequisite courses Eh 3, 4 and Eh 7 or 8, or their equivalent, before the close of their sophomore year. A grade of C or better is expected in Eh 3, 4 and in eighteen hours of the major curriculum.

The departmental comprehensive examinations comprise written examinations in the mechanics of writing and in the history of English literature, late in the junior year; a critical report on the study of some selected author, early in the senior year; a written examination covering the student's advanced courses in his major field, and a comprehensive oral examination in his final semester. The senior oral examination will be a test, not only of the student's knowledge of his special field, but also of his general culture. A passing grade in the written examinations is required for graduation.

Students planning to teach English should take Eh 67 and Eh 84. The latter may be counted toward the Professional Secondary Certificate requirements. Major students in other departments who intend to offer English as a second teaching subject in secondary schools should prepare themselves by taking courses Eh 3, 4; 7 or 8; 57 or 58; 71 or 72 or 43 (44); and 84. Eh 67 is also strongly recommended.

Courses in Composition and Rhetoric

1. Freshman Composition.—A course in expository and narrative writing. Stress is placed upon correctness, clarity, and ease of expression and upon the organization of material. Frequent themes. English 1 and 2 are required of all freshmen and prerequisite for all other English courses. *Three hours a week.*

NOTE: Freshmen who are particularly deficient in the fundamentals of grammar, sentence structure, and spelling are expected to attend special tutoring groups in addition to the regular work of the course.

MR. TURNER (Chairman) and MEMBERS OF THE DEPARTMENT

2. Freshman Composition.—Exposition, stressing letter-writing, themes based on library reading, and literary criticism. Several works of literature are read. The second semester of Freshman English for those students whose grade in English 1 is below B-; elective for others. *Three hours a week.*

MR. TURNER (Chairman) and MEMBERS OF THE DEPARTMENT

5 (6). Technical Composition.—A study of the forms of writing of greatest professional usefulness to engineers, agriculturists, and foresters. The forms of business correspondence, the construction of reports, and preparation of technical papers. *Not open to students in the College of Arts and Sciences. Two hours a week, fall or spring semester.*

MR. SCAMMAN (Chairman), MR. SMALL, MR. REYNOLDS

7. 8. Second-Year Composition.—In the fall semester the writing of essays and reports, with a study of the informal essay; in the spring, descriptive and narrative writing, with a study of the short story. Recommended for students who desire further cultivation in writing than that offered in Eh 1, 2. Either Eh 7 or Eh 8 should be taken in the sophomore year by those who expect to select a major in English literature. *Three hours a week.*

MR. WHITNEY (Chairman), MRS. CRANDON

8b. Writing the Term Paper.—The finding, assembling, and arrangement of source material, and the organization and writing of reports and research papers. *Three hours a week.*

MR. COGGESHALL

77. 78. Creative Writing.—An advanced course for students who have shown exceptional interest and ability in some field of writing. The types selected will vary in different years. Not approved for graduate credit except by special permission from the Graduate Faculty. Prerequisite, completion of English 7 or 8 with honor grade. *Three hours a week.*

77a. The Short Story.—Fall semester. MR. WHITNEY

78b. The Familiar Essay.—Spring semester. MR. WHITNEY

77 (78)c. Verse Writing.—Given in the spring of 1940.

MR. ELLIS

78d. The One-Act Play.

MR. WHITNEY

Courses in Literature

3. 4. History of English Literature.—A study of English literature from the beginning to the present time, tracing its historical development and acquainting the student with the chief writers and their work.

Readings, recitations, and lectures. English 3, 4 is a general prerequisite for advanced courses in English literature. *Three hours a week.*

MR. REYNOLDS (Chairman), MR. ASHBY, MISS CROSBY,
MR. SANDERLIN

9 (10). *Modern Literature.*—A study of specimens of literature of contemporary interest, with the design of cultivating the appreciation and enjoyment of good reading. *Not open to students in Arts and Sciences. Two hours a week, fall or spring semester.*

MR. SCAMMAN (Chairman), MR. SMALL,
MR. REYNOLDS, MR. HAWTHORNE

18. *Literature for Freshmen.*—The reading and study of works of literature representing the chief literary types: fiction, essays, poetry, and drama, with several exercises in composition. This course may be elected instead of or in addition to English 2 by freshmen who have completed English 1 with a grade of B- or better. *Three hours a week.*

MISS CROSBY (Chairman), MR. ASHBY, MR. WHITNEY,
MR. HAWTHORNE

35. 36. *Recent and Contemporary Drama.*—A study of outstanding dramatists and plays, mainly of the twentieth century in Great Britain and the United States. British drama is taken up in the fall semester and American in the spring. *Two hours a week.*

MRS. CRANDON

38. *Browning.*—Primarily a reading course, with much class discussion. An important aim is the cultivation of a fondness for poetry in the student. Given in 1939-40. *Two hours a week.*

MR. TURNER

41 (42). *Present-Day Writers of Maine.*—A study of twentieth-century writers whose works reflect the Maine scene or character. Among the poets and prose writers included are E. A. Robinson, Edna St. Vincent Millay, Robert P. T. Coffin, Mary Ellen Chase, Kenneth Roberts, Gladys Hasty Carroll, Rachel Field, and Owen Davis. *Not given in 1939-40. Two hours a week.*

MR. ELLIS

43 (44). *Chief Writers of America.*—A study of the principal writers of the United States in the nineteenth century, with some attention to Edwards and Franklin in the eighteenth. *Three hours a week, fall or spring semester.*

MR. FLEWELLING

45. 46. *Contemporary Literature.*—A study of recent tendencies and production in poetry, drama, and the novel. The fall semester is devoted to contemporary British literature, the spring to American. *Three hours a week.*

MR. FLEWELLING

47 (48). *The American Novel.*—The chief American novelists of the nineteenth century and their work. *Three hours a week.* Not given in 1939-40. MR. FLEWELLING

For Courses 51-100 inclusive, Eh 3, 4 is prerequisite, except for Dean's List students in any college, whose grades in English have been satisfactory and who have the instructor's permission to enroll. These courses may, with the approval of the Graduate Faculty, be taken for graduate credit by any qualified student who has already completed satisfactorily a full advanced course in the Department.

54. *Chaucer.*—A study of selections from the *Canterbury Tales* and the chief minor poems, stressing the reading of Chaucer as poetry, his literary range and qualities, and the picture of his time given in his works. *Three hours a week.* MISS CROSBY

55. *Poetry of the Romantic Movement.*—A study of the poetry of Wordsworth, Coleridge, Byron, Shelley, Keats, and their contemporaries, against the background of their time. Given in 1939-40 and alternate years. *Three hours a week.* MR. TURNER

57. 58. *Shakespeare.*—A careful study of several of Shakespeare's most important plays and the reading of others, preceded by a brief consideration of the earlier English drama. Attention is given to Elizabethan stage conditions and the dramatic work of Shakespeare's contemporaries. *Three hours a week.* MR. ELLIS, MR. SMALL

59. 60. *Nineteenth Century British Prose.*—A study of the chief non-fiction writers of the nineteenth century, with attention to form and to the ideas conveyed. The authors principally treated are Coleridge, Lamb, Hazlitt, De Quincey, Carlyle, Macaulay, Arnold, Ruskin, Newman, Huxley, Pater, Stevenson, and Butler. Given in 1939-40. *Two hours a week.* MR. WENCE

61. 62. *History of the English Drama.*—In the first half, the development of the drama in England from the miracle plays through the Elizabethan period. In the second half, subsequent tendencies from the Restoration period to the twentieth century. Given in 1939-40 and alternate years. *Three hours a week.* MR. ASHBY

65. 66. *Restoration and Eighteenth Century Literature.*—A study of the evolution of neo-classicism and its transition into the early Romantic Movement, as shown in the various types of literature that flourished in this period. Given in 1939-40 and alternate years. *Three hours a week.* MR. ASHBY

71. 72. *American Literature.*—A study of the development and history of American literature, including the political, social, and religious ideas which it reflects. *Three hours a week.* MR. ELLIS

81. 82. *The English Novel.*—This course traces, in the first semester, the history of the English novel from the medieval prose romances to the death of Scott. Beginning with Dickens and Thackeray, the second semester treats the Victorian novel in considerable detail and makes some study of recent British novelists. Given in 1940-41 and alternate years. *Three hours a week.* MR. TURNER

101. 102. *Graduate Seminar.*—Subject and credit vary. Recent topics have been Middle English Literature, Elizabethan Non-dramatic Literature, Milton and His Times, The New England Renaissance, Puritanism in American Literature.

Courses in Journalism

23; 24. *News Writing and Editing.*—A study of news as defined by the practice of the metropolitan daily. Class discussions and exercises. The mechanics and theory of copy-desk editing. Laws affecting the press: libel and contempt of court. Standards and ethics. Open to sophomores and upper-classmen. Prerequisite, English 1, 2; History 3, 4 or 5, 6. *Three hours a week.* MR. COGGESHALL

25 (26). *The Newspaper in the Twentieth Century.*—The history of the American press. The newspaper as a social institution and as an organ of political opinion. Prerequisites: a minimum grade of C in English 23, 24; History 5, 6; Government 31, 32, or consent of the instructor. *Three hours a week.* MR. COGGESHALL

28. *Departmental or Feature Writing.*—Practice in various forms of specialized writing for daily and weekly newspapers, feature sections, etc. Assignments will vary according to the objectives of individual students. Prerequisites: a minimum grade of C in English 23, 24; 25, or consent of the instructor. Given in 1939-40 and alternate years. *Two hours a week.*

MR. COGGESHALL

30. *The Country Newspaper.*—A study of the administrative, mechanical, and editorial problems of the weekly journal. The course will be associated as far as possible with the weekly newspapers of the State. Prerequisite: a minimum grade of C in English 23, 24, or consent of the instructor. Given in 1940-41 and alternate years. *Three hours a week.*

MR. COGGESHALL

79 (80). *The Newspaper as a Factor in International Relations.*—

News as a world commodity, censorship and propaganda, the work of the foreign correspondent; the press and public opinion as a factor in precipitating war; the problem of international negotiation and the demand for publicity. Prerequisites: a minimum grade of C in English 23, 24; History 5, 6; 54; 67, 68; or consent of the instructor. Given in the fall semester, 1939. *Three hours a week.*

MR. COGGESHALL

Courses in Linguistics

51; 52. *Anglo-Saxon.*—A study of Anglo-Saxon grammar and reading of easy prose and poetry. Reading of the Anglo-Saxon epic *Beowulf* in the second semester. Lectures on the literature of the Anglo-Saxon period. Not given in 1939-40. *Three hours a week.*

MR. SMALL

67. *History of the English Language.*—English words and their background; a study of the changes in sounds, forms, and meanings that have produced our contemporary English. Recommended for students preparing to teach English or to do graduate study in the subject. *Two hours a week.*

MR. SMALL

Courses in Comparative Literature

Cp 39, 40. *The Literature of Social Change.*—Notable works which have reflected or brought about changes in the social or political order, considered in their bearing upon the present-day scene. The great Utopias and social satires, nineteenth-century humanitarian novels, the works of Karl Marx and Hitler, and such contemporary social critics as Shaw, Galsworthy, Sinclair, Dreiser, Caldwell, and Steinbeck. *Three hours a week.*

MR. WENCE

Cp 73; 74. *Literary Criticism.*—A study of literary practices and standards from Aristotle to the present, including American criticism. The reading not only of works of criticism, but also of some of the recognized masterpieces of Continental literature to which critical principles have been most frequently applied. Given in 1940-41. *Three hours a week.*

MR. ASHBY

Cp 75. 76. *European Literature.*—A survey of European literature from Homer to the present, showing the relationship among the literatures of different epochs and countries. The first semester comes down to the Renaissance; the second, to the present. Course 76 may not be taken separately except by permission. Foreign language majors may substitute other readings

for works treated in their major courses. No knowledge of foreign languages is required. *Three hours a week.* MR. TURNER

(See also Fr 51, 52; Gk 51; Gm 59 (60); Sp 57, 58.)

Courses in the Teaching of English

84. Teaching of English in the High School.—A practical survey of materials in common use in high-school English classes, together with an examination of current methods and theories. Review of mechanics, practice in theme-correction, and remedial reading will be stressed. *Three hours a week.* MRS. CRANDON

Ed 29a. Supervised Student Teaching of English.—(See School of Education.) For approved senior tutors. *Two hours a week*, first or second half of fall semester. *One credit hour.* MISS OLIVER

GEOLOGY AND GEOGRAPHY

These and other courses in Geology are described under the Department of Civil Engineering in the College of Technology.

Ce 12. Economic Geography.—Deals with the principles of geography, especially applied to the common economic products, treating their distribution, characteristics, and uses. Given in 1939-40 and alternate years. Classroom, *three hours a week. Three credit hours.* MR. TREFETHEN

Ce 13. Physical Geology.—Introduction to general dynamical geology; it covers the materials, agents, and processes of geology. Classroom, *three hours a week. Three credit hours.* MR. TREFETHEN

Ce 14. Introduction to Regional Geography.—A survey course designed to give a general understanding of the natural and cultural aspects of the major geographic regions of the world. To be given in 1940-41 and alternate years. Classroom, *three hours a week. Three credit hours.*

MR. TREFETHEN

Ce 17. Economic Geology.—Introduction to ore deposits; their characteristics, distribution, production, and uses of both metals and non-metals. Classroom, *two hours a week. Two credit hours.* MR. TREFETHEN

Ce 18. Historical Geology.—A review of the earth's history; its past land distribution, mountain revolutions, rock formations, climates, and living forms. Classroom, *three hours a week. Three credit hours.*

MR. TREFETHEN

Ce 19. Advanced General Geology.—A study of the common rocks and minerals and geologic processes. Designed for students who are considering further work in geology and students who expect to teach science in the high schools. Prerequisite, Ce 13 or Ce 16. Classroom, *two hours a week*; laboratory, *two hours a week*. *Three credit hours*. MR. TREFETHEN

Ce 79. Structural Geology.—Principles and characteristics of earth structures. Prerequisite, Course 25. Given in 1938-39 and alternate years. Classroom, *two hours a week*. *Two credit hours*. MR. TREFETHEN

GERMAN

PROFESSOR DRUMMOND; ASSOCIATE PROFESSOR KLEIN;
ASSISTANT PROFESSOR MILES

The Department of German offers the student an opportunity to become acquainted with the great literature of a foreign nation.

In addition to its cultural worth, German has a great practical value for students who intend to do research work in literature, history, economics, philosophy, and especially in the natural sciences, since a great deal of scientific literature is written in German.

Special courses, too, are offered for those students who desire to obtain a good writing and speaking knowledge of German.

1-2. First-Year German.—A course for beginners. Grammar, composition, translation, conversation. Credit is not given for less than a year's work to students in the College of Arts and Sciences. *Four hours a week*.

MR. DRUMMOND, MR. KLEIN, MR. MILES

3. 4. Short Story.—For students who have had Course 1, 2 or the equivalent. Translation, composition, grammar review. *Three hours a week*.

MR. DRUMMOND, MR. MILES

5. 6. The Drama.—For students who have had Course 3. 4 or the equivalent. A study of the German drama including selections from such eighteenth and nineteenth century writers as Lessing, Schiller, Hebbel, Kleist, Hauptmann. Lectures and discussion. *Three hours a week*. MR. DRUMMOND

7. 8. The Novel.—For students who have had Course 5, 6 or the equivalent. Critical reading of novels by such authors as Goethe, Meyer, Ludwig, and Sudermann. Lectures and essays. *Three hours a week*.

MR. KLEIN

13. 14. Elementary German Composition and Conversation.—For students who have had Course 1, 2 or the equivalent. *Two hours a week*.

MR. MILES

15. 16. Scientific German.—Open only to students whose previous study of German will enable them to read scientific German with profit. *Two hours a week.* MR. KLEIN

17. 18. —Advanced German Conversation and Composition.—For students who have had Course 13, 14. *Two hours a week.* MR. KLEIN

19-20. German for Chemists.—A beginning course in German for students in the Colleges of Agriculture and Technology, and for students in the College of Arts and Sciences who intend to major in Chemistry. The reading matter is chiefly in chemical German with incidental stress upon grammar. *Three hours a week.* MR. KLEIN, MR. MILES

21; 22. German for Chemists.—Continuation of Course 19, 20, which is prerequisite. Should be taken by students who take Course 19, 20. *Three hours a week.* MR. KLEIN, MR. MILES

The following courses are given when there is sufficient demand.

51. 52. Studies in Eighteenth Century Literature.—Special attention is given to the life and works of Klopstock, Lessing, Wieland, Goethe, and Schiller. Critical study of assigned works, lectures, and discussions. *Two hours a week.* MR. DRUMMOND

53. 54. Goethe.—Lectures on the life and work of Goethe, with a critical study of Faust. *Three hours a week.* MR. DRUMMOND

55. 56. Studies in Nineteenth Century Literature.—The various literary movements of the nineteenth century; lectures, discussions, outside reading. *Two hours a week.* MR. KLEIN

57. 58. Seminar.—A study of some special topic in German literature. *Two hours a week.* MR. DRUMMOND, MR. KLEIN

59 (60). History of German Literature.—Lectures in German, outlining the history of German literature Recitations, outside reading. *Three hours a week, fall or spring semester.* MR. DRUMMOND

The department is also prepared to give, when there is sufficient demand, the following courses: **61. 62. Early New High German; 101. 102. Gothic: Introduction to the Study of Germanic Philology; 103. 104. Old High German; 105. 106. Middle High German.**

HISTORY AND GOVERNMENT

PROFESSORS DOW AND WHITMORE; ASSOCIATE PROFESSOR WILSON;
ASSISTANT PROFESSOR MORROW; MR. PELLETIER

Coöperating members of the Department:

MR. HUDDILSTON, of the Department of Classics

MR. PETERSON, Head of the Department of Romance Languages

Major Students. Since students concentrate in History and Government in preparation for widely divergent occupations, the major requirements of the Department have been given considerable flexibility. Pre-law students, those planning to enter the civil or diplomatic service, and those interested in state or city administrative positions are advised to take advanced courses in government, modern history, and economics. For theology, emphasis should be placed on ancient and medieval history with supporting courses in philosophy and English. Students looking forward to library work or to connections with publishing companies will find that, in addition to medieval and modern history, courses in foreign languages and literature are valuable. Majors in History or Government who plan to go on with the subject in graduate school should have a knowledge of French and German.

Students majoring in History or Government are expected to complete at least eighteen hours of work in approved courses. Courses Hy 1-6; 21, 22, Gt 1, 2 do not count as major courses under ordinary circumstances. For the purposes of the major, the courses of the Department will be considered in three divisions or fields of specialization: (1) European History, (2) American History, (3) Government. Having chosen his field of specialization, the student takes at least two approved courses (four semesters) in that division. Students who expect to specialize in European or American History should complete Hy 3, 4 and Hy 5, 6 or Cv 1-4, by the close of their sophomore year. Those who expect to specialize in Government, or History and Government, should complete Gt 1, 2 and Hy 3, 4 or Hy 5, 6 by the close of their second year. Principles of Economics and Sociology are strongly recommended for prospective majors in History and Government. Students may combine a major in History or Government with any other of the Social Sciences: Economics, Philosophy, Psychology, and Sociology.

The comprehensive examination required of majors in the department is divided into two parts: (1) a written examination at the end of the junior year over the basic work in the major field, and (2) an oral examination at the end of the senior year over the major work of the last two years.

Courses numbered above fifty are not open to freshmen or sophomores except by special permission from the head of the Department.

Teacher Training. Students in the School of Education or College of Arts and Sciences who expect to offer History as a teaching subject should take Courses 3, 4, 5, 6, and six hours of advanced work previously approved by the head of the Department. Grades should be C or better in all courses. Many teachers are called upon to teach Civics, Citizenship, or Current Events courses, and consequently, Gt 1, 2 is advised for this purpose. Subjects commonly combined with History for teaching purposes are English, French, Latin, science, or mathematics.

History

History includes in one continuous narrative the story of mankind so far as it is known. Courses offered by the Department of History and Government are limited to selected periods which seem significant for the present generation. History is more than "past politics"—it includes economic, social, intellectual, artistic, and scientific events. It deals with ages, races, and social movements, attempting to interpret its materials in such a way as to throw light on our present complex civilization and the future course of events.

1. 2. *Ancient Civilization.*—A study of the achievements of the Greeks and Romans in laying the foundations of Western life and thought with some attention to Egyptian and Eastern civilization as the background of classical culture. An important part of the course lies in the emphasis that is given to Greek thought and Roman rule in the midst of which Christianity sprang up. Readings, lectures, and notebook. Open to all students. *Three hours a week.* MR. HUDDILSTON

3. 4. *United States History.*—From the organization of the new government in 1789 to recent years. The work will cover such topics as the development of democracy, growth of the West, slavery and sectionalism, the Civil War, reconstruction, the making of modern America, industrialization, and imperialism. *Three hours a week.* MR. WHITMORE

5; 6. *Survey of Western Europe.*—This course is designed to show how modern Europe and its civilization came into existence. The work will include such subjects as the history of the Church, the medieval empire, the growth of towns, evolution of the Western State System, the expansion of Europe, cultural and economic changes, and the World War. *Three hours a week.* MISS WILSON

17. 18. *History of England.*—From earliest times to the present. The political aspects are emphasized, with some attention to social and economic factors. Stress is placed upon the development of parliamentary government

and the evolution of modern England and the British Commonwealth of Nations. *Three hours a week.* MR. PELLETIER

21 (22). Current World Problems.—A course designed for those who wish to be intelligently informed on world affairs, but do not make history their major subject. Lectures and discussions on outstanding problems of history, government, and politics. Open to all students in the University except freshmen. *Two hours a week.* MR. WHITMORE

53. Europe from 1815 to 1870.—This course will be concerned chiefly with the origins and the development of economic and political liberalism, the growth of modern nationalism, and the achievement of political democracy in Europe. The effect of these developments upon the literature and thought of the nineteenth century will be studied briefly. Prerequisite, Course 6. *Three hours a week.* MISS WILSON

54. Europe Since 1870.—The causes of the World War are sought in a study of nationalism, imperialism, and the international anarchy which these engendered. A study of the treaties of 1919 and their effects is a part of a brief survey of current European problems. Prerequisite, Course 6. *Three hours a week.* MISS WILSON

57. American Colonial History, 1607-1688.—The founding and the political, social, and economic development of the colonies in the seventeenth century. English colonial policy of the Commonwealth and the Restoration periods. Permission of the instructor required. *Two hours a week.* MR. WHITMORE

58. American Colonial History, 1689-1789.—A study of the development of the colonies in the eighteenth century, including their western expansion, imperial relations, intercolonial relations, development of self-government. Emphasis is placed on the remote and immediate causes and the results of the American Revolution. Permission of the instructor required. *Two hours a week.* MR. WHITMORE

59. 60. Economic and Social History of the United States.—A study of economic and social movements in the United States from the colonial period to the present. Included are such topics as colonial production and commerce; agricultural development in the South and West; commerce, labor, and agriculture in the machine age. Prerequisite, six hours of history or economics. *Three hours a week.* MR. MORROW

62. Maritime History of the United States.—Ships and trade from Colonial days to the present, with emphasis on shipbuilding and shipping in New England, New York, and Maryland. The following topics are illustra-

tive: famous ships and ship builders; evolution from wood to iron and steel ships; California and the clippers; the effect of the Civil War and the World War on our merchant marine. Permission of the instructor required. *Two hours a week.* MR. WHITMORE

65, 66. Latin-American History.—The colonization, formation, and development of the Latin-American republics with special attention to Mexico and the Argentine Republic. Emphasis is placed on their civilization, problems and possibilities, and relations with foreign nations. Prerequisite, six hours of history. *Two hours a week.* MR. PETERSON

67, 68. American Diplomatic History.—An account of the relations of the United States with the outside world. Such policies will be examined as the Monroe Doctrine, Pan-Americanism, and the "Open Door." Attention will be paid to our attitude toward the acquisition of territory, arbitration, limitation of armaments, and the League of Nations. Prerequisite, Course 3, 4 or 31. *Three hours a week.* MR. MORROW

77, 78. The Middle Ages.—A more advanced study of the period from 500 to 1500 than is undertaken in Course 5, 6. Special emphasis will be given to a study of medieval institutions and to social and economic matters. The Byzantine empire, Slavic Europe, and the westward advance of the Asiatic peoples will be studied as an introduction to modern problems in the Near East. Prerequisite, Course 5. Not given in 1940-41. *Three hours a week.* MISS WILSON

79, 80. Cultural and Intellectual History of Europe, 400-1500.—This course follows the declines and advances of civilization from the end of the Roman period to the beginning of modern times. Such subjects will be considered as the science, religion, and philosophy of the transition period; contacts with Mohammendan civilization; the scientific renaissance; the rise of universities; art and architecture; and humanism and the Italian renaissance. Prerequisite, Course 5. Given in 1940-41 and alternate years. *Three hours a week.* MISS WILSON

101, 102. Seminar.

125. Graduate Thesis.—*Six credit hours.*

81, 82. The Far East.—Given in case of sufficient demand.

Government

The study of government, or political science, covers the activities of governing agencies from towns and cities to international bodies. It is concerned with the origin and development of political institutions and their

social effects, and with the possibilities for improvement. As the activities of present-day government are almost countless and affect the citizen at every moment, political science is closely related to all the social sciences, especially to economics, sociology, and psychology. Like other social studies, it is deeply rooted in history.

The primary purpose of instruction in government is to train college students for active and intelligent citizenship.

Public Service Training. With the rapid expansion of government agencies and services there has come an added need for public servants with basic training in government and administration. A large proportion of the public hold elective or administrative offices at some time during their careers. Opportunities for trained men and women in public service are increasing. This is especially true of such fields as city management, health administration, public welfare, and financial administration. Advanced technical or professional training is required for many positions, but basic undergraduate training in government is valuable in all instances. A broad viewpoint and cultural background can be attained at the same time, which will be useful in any occupation entered.

Specimen Curricula have been prepared in the following subjects and are obtainable from the Dean of the College of Arts and Sciences:

Pre-legal Training. (See specimen curriculum on page 174.)

Foreign Service

Public Administration

1; 2. *Introduction to Government.*—A comparative study of politics and administration in the United States and the leading European nations. Emphasis will be on the major problems of life, liberty, and property under different theories of government. *Three hours a week.*

MR. DOW, MR. PELLETIER

8. *Maine Government.*—Designed to show the practical operation and current problems of state and local government as these affect the citizen of Maine. One lecture each week by an official, followed by a round table discussion. No prerequisite. *Two hours a week. One credit hour.*

GUEST LECTURERS, MR. DOW, MR. PELLETIER

8a. *Maine Government.*—For prospective teachers and all others wishing a more complete picture of Maine government. Includes Course 8, plus an additional weekly lecture or discussion, and assigned readings. Permission of the department head required. *Three hours a week. Two credit hours.*

8b. *Maine Government.*—The same as Course 8a, with the added requirement of a term paper written on a problem of Maine government. Permission of the department head required. *Three hours a week.*

32. State Government.—A course dealing with state, county, and town governments. The historical development and practical operation of political institutions will be viewed in their relation to present problems of a legislative, judicial, or executive nature. *Three hours a week.*

MR. DOW, MR. PELLETIER

33 (34). Municipal Government and Administration.—A survey of the governmental structure and functions of American municipalities, and a careful analysis of existing conditions. Special study is given to administrative problems arising from such functions as police, education, charities and correction, finance, public works, and city planning and zoning *Three hours a week.*

MR. DOW

51. Public Administration.—The practical problems of administration in the modern state. The development of administration; principles of departmental organization and control; administrative law; public relations; financial administration. Field trips to governmental agencies. Prerequisite, Course 1, 2. *Three hours a week.*

MR. DOW

73. 74. International Relations.—A study of the fundamental realities which underlie international relations, and of the rules which govern them, with illustrative material taken from recent and current events and policies. Prerequisite, six hours of history or government. *Three hours a week.*

MR. MORROW

83; 84. The American Constitution.—The origin and development of our constitution, from 1787 to the present. Lives of famous judges; court organization and procedure; regulation of commerce; protection of life, liberty, and property—these are typical of the subjects studied. Prerequisite, Course 1, 2, or Hy 3, 4. *Three hours a week.*

MR. DOW

101. 102. Seminar.

125. Graduate Thesis.—*Six credit hours.*

The following courses will be given in case of sufficient demand:—

87; 88. International Law; 99; 100. Political Theory.

See also **Personnel Management**, under the department of Economics and Sociology.

HONORS COURSES

Freshman Year

Gh 46. Freshman Honors.—The purpose of this course is to assist the freshman in discovering his special interests and aptitudes. The tutor

will seek to further this purpose by informal questioning and discussion and by the assignment of appropriate reading. Given only in the spring semester. *Three credit hours.*

Sophomore Year

Gh 47. 48. Sophomore Honors.—This course is designed to make the student acquainted with some of the great books of the world—that is to say, *readable* books of established reputation, particularly those which have figured prominently in the history of occidental culture. These may be of all types, and be concerned with a great variety of subjects, scientific as well as literary. The reading will be confined in the main to a prescribed list, but this list will be extensive enough to allow the student abundant freedom of choice and sufficient opportunity to indulge his special interests. *Three credit hours.*

Junior Year

Gh 51. 52. Junior Honors.—This course may be used in one of three ways: (1) for the pursuit of some subject outside of the student's major field, (2) for a continuation of the Honors reading program of the freshman and sophomore years, or (3) for the pursuit of some subject in the student's major field in anticipation of the Major Honors course of the senior year. *Three credit hours.*

Senior Year

Gh 53-54. Senior Honors.—This course is the culmination of the Honors program. Coming at the close of this program, it is expected to afford evidence of the extent to which the student has profited by Honors work, and to offer him an opportunity to manifest the qualities that this work is intended to develop. It requires him to make an intensive study of some special subject within his major field and to embody the results of this study in a substantial thesis. Both semesters are needed for this undertaking. *Three credit hours.*

MATHEMATICS

PROFESSOR WILLARD; ASSOCIATE PROFESSORS BRYAN AND JORDAN; ASSISTANT
PROFESSORS LUCAS, STEWART, KIMBALL, AND LAMOREAU;
MR. JONES; MISS LAMOREAU; MR. MALLET

The function of the Department of Mathematics is two-fold. On the one hand the Department offers courses to students who are interested in mathematics as a preparation for research and the profession of teaching. It prepares such students to undertake graduate study in mathematics or to teach the subject in secondary schools. The Department also supplies adequate mathematical foundation for students in the College of Arts and Sciences who are interested in the application of mathematics to the study of the physical, biological, and social sciences.

On the other hand it acts as a service department for the Colleges of Technology and Agriculture. In this capacity it furnishes the students of those colleges with sufficient training in mathematics to enable them to carry forward successfully their technical studies.

Freshman students who are well qualified both as to ability and training will be placed in advanced sections. Such students will be selected by the Department and will take the freshman Courses 11 and 12, followed, in the sophomore year, by Courses 7a and 8a.

Students whose major subject is mathematics are required to take Courses 1, 3, 6, 7, 8, 15, 16 or Courses 11, 12, 7a, 8a, 15, 16. Not less than twelve hours are to be selected from courses in mathematics, astronomy, and mechanics numbered 50 or above, and Astronomy 15 and 16. At least six of these hours must be chosen from mathematics courses numbered 51, 52, 53, 54, 55, 56, 60. Astronomy 11 may be taken as a mathematics elective. Students whose major subject is mathematics and who intend to teach in secondary schools are advised to elect Courses 17, 18 or 19, 20; 51, 61, 63, 64 as well as several courses in associated fields.

1. Trigonometry.—The trigonometric functions, radian measure, functions of two or more angles, logarithms, trigonometric equations, inverse functions, solution of right and oblique triangles. *Two hours a week.*

MR. WILLARD AND MEMBERS OF THE STAFF

2. Solid Geometry.—Solid and spherical geometry, including original demonstrations and the solution of numerical problems. Open to all freshmen who have not offered solid geometry for admission. *Three hours a week.*

MR. JONES

3. College Algebra.—A brief review of radicals, the theory of exponents, logarithms, quadratic equations, the binomial theorem, determinants, theory of equations. *Two hours a week.*

MR. WILLARD AND MEMBERS OF THE STAFF

6. Analytic Geometry and Calculus.—The point, line, circle, and conic sections. Differentiation of algebraic and elementary transcendental functions with applications to maxima and minima and rate problems. Open to students who have had Courses 1 and 3. *Four hours a week.*

MR. WILLARD AND MEMBERS OF THE STAFF

7. Differential Calculus.—Differentiation of algebraic functions and of the elementary forms of transcendental functions, successive differentiation, differentials, rates, maxima and minima, expansion of functions, series. Open to students who have taken Courses 1, 3, and 6. *Five hours a week.*

MR. WILLARD AND MEMBERS OF THE STAFF

8. Integral Calculus.—A continuation of Course 7. Integration of the elementary forms; integration as a summation; various methods of integration. Applications of differential and integral calculus. *Five hours a week.*

MR. WILLARD AND MEMBERS OF THE STAFF

9; 10. Algebra, Trigonometry, and Their Applications.—A course designed to meet the needs of freshman students in Forestry. *Two hours a week.* MR. STEWART, MR. LAMOREAU, MR. JONES, MISS LAMOREAU

11, 12. Freshman Mathematics.—Course 11 consists of an intensive review of algebra and trigonometry followed by a brief course in analytic geometry. Course 12 covers the material of Course 7 (Differential Calculus) with the exception of series and expansion of functions. Open to students selected by the Department. *Four hours a week.*

MR. KIMBALL, MR. LAMOREAU

7a, 8a. Calculus.—These courses are designed for students who have had Courses 11 and 12. At least one-half of the spring semester will be devoted to differential equations and their applications to engineering problems. *Four hours a week.* MR. LUCAS, MR. KIMBALL, MR. LAMOREAU

13. Spherical Trigonometry.—An elementary course with problems and applications to spherical astronomy. Not given in 1939-40. *Two hours a week.*

MR. KIMBALL

15. Analytic Geometry.—A continuation of the analytic geometry of Course 6, including an introduction to the Theory of Algebraic Plane Curves and certain topics in Solid Geometry. Open to students who have taken Courses 1, 3, and 6. *Three hours a week.*

THE STAFF

16. Advanced Algebra.—A brief study of topics in college algebra not covered in Course 3, including a more detailed study of determinants and of the Theory of Equations. Open to students who have taken Courses 1 and 3, and with the consent of the instructor to freshmen with especially good high-school preparation. *Three hours a week.* MR. KIMBALL

17; 18. Mathematical Theory of Investment.—A study of interest, discount, annuities, amortization, the valuation of bonds, sinking funds and depreciation, building and loan associations; also the theory of probability and its application to life annuities and life insurance. Throughout the course numerous problems are solved to illustrate the theory and to fix the principles involved. *Two hours a week.* MR. STEWART

19; 20. Statistics.—The various topics in statistics will be introduced by illustrative material from the fields of economics, business and public administration, and applied science. The course is designed to enable the general student critically to evaluate and understand the preparation, presentation, and interpretation of statistical material. *Two hours a week.* MR. BRYAN

23; 24. Introduction to Mathematical Analysis.—A general introductory course in mathematics for freshmen in the College of Arts and Sciences. This course is designed especially for students who are interested in the physical, biological, and social sciences, and consists of a coördinated development of topics in algebra, trigonometry, analytic geometry, and introductory calculus. *Three hours a week.* MR. BRYAN

51. College Geometry.—A course in modern Euclidean geometry. The nine-point circle, harmonic section, poles and polars are among the topics considered. Emphasis is placed on the solution of original exercises. Given in 1941-42 and alternate years. Prerequisites 1, 3 and 6. *Three hours a week.* MR. KIMBALL

52. Projective Geometry.—An introduction to projective geometry, from the analytic point of view. Homogeneous coördinates, duality, collineations and conics are among the topics considered. Given in 1941-42 and alternate years. Prerequisites 1, 3 and 6. *Three hours a week.* MR. KIMBALL

53; 54. Advanced Calculus.—Some of the topics considered are: real numbers, limits and continuity, infinite series including power series and Fourier Series, Gamma and Beta functions, partial differentiation and its applications, implicit functions, double and triple integration, and line integrals. Open to juniors, seniors, and graduate students who have had adequate preparation. Given in 1940-41 and alternate years. *Three hours a week.*

MR. LAMOREAU

55. Differential Equations.—A course in the solution of ordinary differential equations and their applications. Emphasis is laid on the methods used in solving equations of the common types. Open to students who have taken Course 7, 8. *Three hours a week.* MR. WILLARD

56. Vector Analysis.—A treatment of vector algebra and vector calculus required in theoretical work in Physics and Engineering. *Three hours a week.* Not given in 1939-40. MR. LUCAS

57, 58. Engineering Mathematics.—A course designed primarily for juniors in Electrical Engineering and Engineering Physics. Some of the topics considered are: Complex numbers and Hyperbolic Functions, Vector Algebra, Fourier Series, Gamma and Bessel Functions, Theory of Probability; also, as time permits, the following topics from Function Theory: Line Integrals, Cauchy's Integral Theorem, Theory of Residues. *Three hours a week.* MR. LUCAS

60. Theory of Functions of a Complex Variable.—An elementary course in the treatment of analytic functions. The course includes conformal representation; a consideration of infinite series, both single and double; and infinite products. Open to juniors, seniors, and graduate students who have had adequate preparation. Not given in 1939-40. *Three hours a week.* MR. WILLARD

61. History of Mathematics.—A chronological survey of the important development in mathematics from the beginnings of the subject to the present time. Lectures, reference studies, and recitations. Prerequisites, Courses 1, 3, 6, 7. Courses 2, 8, 26 and a reading knowledge of French and German are desirable. In the case of experienced teachers, certain of the above prerequisites may be waived. Given in 1939-40 and alternate years. *Three hours a week.* MR. BRYAN

63; 64. Teachers' Course in Mathematics.—A study of the kind of mathematics suitable for the secondary school from the point of view of modern mathematics. Through conference, students who so desire may make a study of the teaching of college mathematics. Prerequisites, Courses 1, 3, 6, 7. In the case of experienced teachers, certain of the above prerequisites may be waived. Given in 1939-40 and alterante years. *Three hours a week.* MR. BRYAN

73, 74. Advanced Statistics.—Derivations of formulas, further development of theory, discussions of preferential methods of correlation and of procedure, investigations by individuals and by groups. For students who are not mathematics majors, the emphasis will be placed on the further applications in the respective fields in which such students are interested rather

than on the mathematical theory of statistics. Open to juniors, seniors, and graduate students. Prerequisite: Course 19; 20. Given in 1940-41 and alternate years. *Three hours a week.* MR. BRYAN

The Department is also prepared to give the following courses, which may be offered when there is sufficient demand: **65. Theory of Equations; 66. Modern Projective Geometry; 68. Theory of Numbers; 71; 72. Modern Higher Algebra; 102. Elliptic Functions; 105. Vector Analysis; 109. Celestial Mechanics; 110. Hydrodynamics; 115. Theory of Functions of Real Variables; 116. Fourier's Series; 117. Theory of Substitution Groups and of Algebraic Fields; 118. Theory of Transformation Groups (Lie Theory); 119; 120. Differential Geometry.**

Modern Society

PROFESSOR KIRSHEN (Chairman); MR. PELLETIER; MR. WHITNEY

1; 2. Modern Society.—The first year the following problems will be considered: nationalism and internationalism, prosperity and depression, the business system and the middle class, political organization and the politician, labor and labor organization. *Three hours a week.*

3; 4. Modern Society.—The second year continues with a further analysis and discussion of problems in our society, such as government and society, democracy and its rivals, the formation of public opinion and civil liberties, population and natural resources, price, credit and taxation policies, international organization for peace and war. *Three hours a week.*

Western Civilization

ASSISTANT PROFESSOR MORROW (Chairman); PROFESSOR LEVINSON;
ASSOCIATE PROFESSOR E. F. WILSON; AND DR. STARR

1; 2. Western Civilization.—The first year of this two-year sequence aims to trace the development of Western Civilization from Ancient Greece and its neighboring older civilizations through Rome and the Middle Ages to the Renaissance. It will emphasize the relations between the literary, artistic, and philosophical achievements of the various ages and their underlying political and social origins. *Three hours a week.*

3; 4. Western Civilization.—During the second year the course will deal in a similar fashion with the period from the Renaissance to the present day. The same general plan of study will be observed with a view to correlating the subject matter of the course with the study of the modern scene. *Three hours a week.*

MUSIC

PROFESSOR SPRAGUE

The music curriculum is formulated with the general objective of contributing toward a well-rounded college education. The primary aim of all the offerings of the Department of Music—aesthetic, theoretical, and applied—is to promote a constantly widening acquaintance with the literature of music. The courses all move toward this end: the aesthetic provide a listening survey of comparative epochs and “schools”; the theoretical lead to a more exhaustive and detailed working knowledge, through analysis and composition; the applied, both in individual and ensemble performance, give the creative product its living realization.

Although the purpose of instrumental and vocal instruction is not to make professional musicians but rather to open to the student a broader grasp of the significance of great music, the college recognizes its obligation to offer those who enter the University with some mastery of technique an opportunity to maintain and further advance this acquirement.

3. 4. *Music Appreciation.*—The masterpieces of music analyzed and interpreted, with a consideration of period tendencies and historical positions of composers. The evolution of form from the folk-song through the symphony. Lectures, illustrations, prescribed readings, reports. No prerequisites. *Two hours a week.*

5; 6. *Introductory Harmony.*—A study of the fundamental structure of music composition, specifically of the conditions under which tones sound together and move in combination. Prerequisite, a knowledge of notation. *Two hours a week.*

7; 8. *Advanced Harmony.*—Supplementary to Course 5, 6 and a continuation of the more advanced problems of tone combination. Harmonic analysis, including a brief survey of modernistic tendencies. Prerequisite, Course 5, 6. Given in 1939-40 and alternate years. *Two hours a week.*

9; 10. *Counterpoint.*—The art of combining melodies, a correlative with Harmony as the material of composition. Analysis of masterworks. Composition projects. Prerequisite, Course 5, 6. Given in 1940-41 and alternate years. *Two hours a week.*

11. 12. *Music in the Nineteenth Century.*—Romanticism in musical art, particularly as reflected in the symphonic poem and Wagnerian music drama. Analysis of masterworks. Prescribed readings and reports. No prerequisite. *Two hours a week.*

13. 14. Orchestration.—A study of the modern symphony orchestra. Analysis of representative works through score-reading, phonographic records, and attendance at concerts. Assigned readings in history and theory. Practical scoring. An assurance of essential preparation is required. *Two hours a week.*

25. 26. Chorus.—The study and performance of representative choral repertoire, with a consideration of the composers' historical positions and creative aims. An assurance of vocal aptitude is required. *Two hours a week. One hour credit.*

27. 28. Orchestra.—A program in orchestral ensemble, generally of symphonic order, similar to that of Course 25, 26. An assurance of instrumental aptitude is required. *Two hours a week. One hour credit.*

51. Interpretation and Conducting.—A consideration of the problems of organization, time-beating, program-building, and interpretation in both choral and instrumental ensemble. Prerequisite, an assurance of aptitude and membership in the University band, chorus, or orchestra. *One hour a week.*

Band is listed under Military Science and Tactics, Course 11. 12.

Applied Courses

The college provides applied music instruction through an affiliation with the Northern Conservatory of Music in Bangor. For economy and convenience to the student, instruction in these courses is given on the campus if a sufficient number register for a course.

A maximum of eight semester hours of credit is allowed for applied music. Repetition of these courses is therefore permitted, with the requisite variation and progress in technical and literary material; but generally whatever number of hours is credited must be paralleled by at least an equal number of hours in music theory and aesthetics. The college provides so far as possible, practice opportunity for students who desire to take applied courses without credit.

Violin, Piano, Organ, Voice.—Private lessons at periods to be arranged. One hour lesson weekly, \$45.00 the semester. *Two credit hours.* One-half hour lesson weekly, \$22.50 the semester. *One credit hour.*

Instrumental and Vocal Ensemble.—Group lessons at periods to be arranged. One hour lesson weekly. Fee, duet, \$22.50 per person the semester; trio, \$15.00 per person the semester; quartet, \$11.25 per person the semester. *One credit hour in each case.*

To meet further demands, instruction in the various orchestral instruments can be provided on a similar basis.

The practice requirements are two hours daily for six days each week for hour lessons, one hour for half-hour lessons. The semester is fifteen weeks for applied music study. Practice facilities are provided on the campus.

For the use of the University instruments, practice fees are charged as follows for a daily practice hour: piano, \$2.50 a semester; organ, \$5.00 a semester.

PHILOSOPHY

PROFESSOR LEVINSON

Philosophy is the systematic attempt to think our way to the solution of the problems that arise when we ask such general questions as those concerning the meaning of the world the origin and destiny of human life, its standards and values, the sources and limits of our genuine knowledge, the principles that underlie valid reasoning, and the sources and significance of the sense of beauty. While philosophy is ordinarily approached directly by way of the history of man's attempt to solve these problems (see Pl 3, 4), or through a study of the principal problems or types of philosophy (see Pl 5, 6), opportunity is offered to various classes of students to approach it from the standpoint of their work in other fields (see Pl 11, 12).

3; 4. *Historical Introduction to Philosophy.*—An approach to philosophy through a first-hand acquaintance with its literature. Reading and interpretation of selections from the philosophical classics of the western world, from Plato to William James. Given in 1939-40 and alternate years. *Three hours a week.*

5; 6. *Personal Philosophy.*—The student is invited to make a provisional statement of his more general beliefs about the nature of the world and man, and, in the light of assigned readings and class discussions, to formulate a working philosophy of life. Given in 1940-41 and alternate years. *Three hours a week.*

8. *The Technique of Thinking.*—Exercise in the logical analysis of argument and in the discrimination of "straight" from "crooked" thought. The materials employed in the course are drawn largely from the press and from the literature of the social sciences. *Two hours a week.* Given in 1941 and alternate years.

10. Ethics.—A critical examination of various competing conceptions of the good life. Special attention will be given to problems of contemporary society: professional and business ethics; democracy and its rivals; religion. *Three hours a week.* Given in 1940 and alternate years.

11. 12. Topics in Philosophy.—This course is restricted to a limited number of properly qualified upperclassmen whose needs in philosophy are not satisfied by any of the other courses offered by the Department. Topics associated with the student's major subject will be studied through tutorial conferences, assigned readings, and reports. No work in philosophy is prerequisite. *Two or three hours a week.*

101. 102. Seminar.—An individually arranged program of tutorial instruction for students offering twelve hours of work in the Department, or the equivalent.

PHYSICS

ASSOCIATE PROFESSOR BENNETT (Department Head); ASSOCIATE PROFESSOR CROFUTT; ASSISTANT PROFESSOR LARSEN; DR. WILLIAMS; MR. OLESON; MR. ELLIS; MR. LANDON

Physics is that science which is concerned with the general laws and principles by which the phenomena of the physical world may be rationally understood. It comprises a body of knowledge which is highly organized by the use of mathematical language and precisely defined terms.

The various branches of this broad subject are unified by an abstract concept called energy, whose various manifestations and transformations become the general concern of the student in this field of learning, from both a theoretical and an experimental point of view.

The science serves as the basis for all branches of engineering and is applied to numerous other phases of everyday life, but applications can never wholly absorb or displace those underlying facts and theories on which they depend. Physicists are being absorbed in increasing numbers in industry as well as in the government bureaus and privately endowed research foundations. Trained physicists also find their places today in the larger hospitals where X-ray, radiation therapy, and allied techniques are of the utmost value. In brief, the physicist is rapidly acquiring recognition in our highly scientific modern world in much the same manner as the chemist has done in the last few decades.

To the person who wishes to apply the subject in any of the above ways,

or who wishes to teach in the university or the secondary school, a basic training in the subject is the first requirement. Such training is offered by the general and intermediate courses Ps 1a, 2a, or 1b, 2b, and (17, 18; 19, 20) or (21, 22, 24). These courses should be supplemented by a balanced program of mathematics and chemistry. Following this basic training, a suitable number of the more advanced courses in physics is offered by the Department to prepare a student for minor positions in the profession, or to prepare him for the graduate training necessary for the higher positions.

For the intelligent layman who does not wish to be without at least a superficial knowledge of the physical world in which he lives, courses of the more descriptive variety are also offered (Ps 3, Ps 10).

The science requirement of the College of Arts and Sciences is met by Ps 1a, 2a, or Ps 1b, 2b, and partially met by Ps 3.

1a; 2a. General Physics.—This course covers the field of First-Year General College Physics. It is intended for the general student and will satisfy the science requirement in the College of Arts and Sciences, as well as the premedical and predental requirements. Emphasis is placed upon the fundamental relations in mechanics, sound, heat, electricity, magnetism, and light. *Two lectures; one recitation, and one two-hour laboratory period a week. Four credit hours.* MR. BENNETT, MR. LARSEN, MR. WILLIAMS

1b; 2b. General Physics.—This is a course in First-Year General College Physics which meets the requirements of the College of Technology. The lectures in this course are held jointly with Course 1a, 2a. With the extra recitation per week, however, this course places more emphasis on the solution of problems than does 1a, 2a. A knowledge of algebra and geometry is prerequisite. *Two lectures, two recitations, and one two-hour laboratory period a week. Five credit hours.*

MR. BENNETT, MR. CROFUTT, MR. LARSEN, MR. WILLIAMS,
MR. OLESON, MR. ELLIS, MR. LANDON

3 (4). Descriptive Physics.—A course intended to fill the need of the non-science student who feels that his orientation in the modern world cannot be complete without a contact with physical science. It treats in non-mathematical language and by classroom demonstrations the more important topics in physics with emphasis upon the vocabulary of the science and the proper relationships between the concepts. References are made to the lives and theories of those men who have contributed most to the advancement of physics. The course partially satisfies the science requirement in the College of Arts and Sciences. No previous knowledge of physics is assumed. *Three lectures a week with demonstrations. Three credit hours.* MR. BENNETT

10. Meteorology.—A study of the earth's atmosphere, its composition and movements. Attention is given to atmospheric conditions accompanying changes in weather, a knowledge of which is essential for making weather predictions. The modern aspects of meteorology are also considered. *Three hours a week. Three credit hours.* MR. CROFUTT

17. 18. Intermediate Physics.—This course follows 1a, 2a, or 1b, 2b to complete a two-year program in general college physics. A more mathematical treatment of many of the topics already introduced in the first course is presented. This two-year program provides adequate preparation for advanced work in physics or for secondary-school science teaching, and at the same time provides a suitable sequence for a science or mathematics major. Course 19, 20 is recommended as a companion course. Course 1a, 2a, or 1b, 2b is prerequisite. *Three hours a week. Three credit hours.*

MR. BENNETT

19. 20. Intermediate Laboratory Physics.—A laboratory course intended to supplement Course 17, 18. The experiments are selected from those regularly performed in Courses 21, 24, with the addition of a few experiments in sound and light. Course 17, 18 is required concurrently or as a prerequisite. *Two hours a week. One credit hour.*

MR. LARSEN, MR. WILLIAMS

21 (22). Mechanics and Heat Laboratory.—A laboratory course on the intermediate level designed primarily to meet the needs of the College of Technology. Fundamental problems in equilibrium, linear and rotary dynamics, vibratory motion, elasticity, viscosity, thermometry, pyrometry, heat of combustion, thermal conductivity, and elementary thermodynamics are studied from the experimental viewpoint. Course 1a, 2a or 1b, 2a is prerequisite. *Four hours a week. Two credit hours.*

MR. LARSEN, MR. WILLIAMS, MR. CROFUTT, MR. OLESON

24. Electrical Measurements.—A laboratory course covering theories and practices in the measurement of electrical and magnetic quantities. It includes a study of current, resistance, difference of potential, capacitance, magnetic flux, self and mutual inductances, impedance, vacuum tube characteristics, and frequency of alternating currents. Open to those who have completed Course 1a, 2a, or 1b, 2b, and who have a working knowledge of calculus. Laboratory, *four hours a week. Two credit hours.* MR. CROFUTT

31. Photography.—This course deals with fundamental theories and techniques and should be of practical value to those considering any line of activity which involves photography. It should also be of interest to those who pursue photography as a hobby or as a form of artistic expression. The work

includes: construction and use of various types of cameras; lenses; exposure and exposure meters; emulsions; filters; artificial lighting and copying; contact and projection printing; dark-room practice. *Two lectures and one two-hour laboratory period a week. Three credit hours.* MR. CROFUTT

50. Problems in Physics.—An undergraduate investigation of an original nature. *Credits from one to three hours, arranged.*

MEMBERS OF THE DEPARTMENTAL STAFF

55. Electricity and Magnetism.—A course on the advanced level covering the fundamental aspects of electrostatics, magnetism, electromagnetic phenomena, direct and alternating currents. Course 17, 18, or its equivalent and a working knowledge of mathematics through the calculus are required. *Three hours a week. Three credit hours.* MR. LARSEN

58. Mathematical Physics.—An advanced course in selected theoretical aspects of physics. Mathematical methods are applied to physical principles. Open to students who have completed Course 17, 18 or its equivalent and who have a working knowledge of the calculus. Not given every year. *Three hours a week. Three credit hours.* MR. WILLIAMS

59. Sound.—A course dealing with vibrating systems, sources of sound, transmission of sound, its reception and transformations. Attention is given to speech and hearing, sound ranging, architectural acoustics, reproduction of sound, noise reduction, and musical instruments. Open to those who have completed Course 17, 18 or its equivalent, and have a working knowledge of the calculus. Not given every year. *Three hours a week. Three credit hours.* MR. CROFUTT

62. Heat and Thermodynamics.—An advanced course dealing with the measurement of temperature, specific heat, thermal expansion, conduction, convection, radiation, change of state, and the laws of thermodynamics. Open to students who have completed Course 17, 18 or its equivalent and who have a working knowledge of the calculus. *Three hours a week. Three credit hours.* MR. CROFUTT

66. Vacuum Tubes and Thermionic Phenomena.—This is a course covering thermionic emission and electronic phenomena in vacuum. In addition to a theoretical treatment of the subject, the physics of vacuum tubes as rectifiers, amplifiers, modulators, and detectors is treated in a practical manner. Open to advanced students who are familiar with the calculus and who have completed Course 17, 18 or its equivalent. Not given every year. *Three hours a week. Three credit hours.* MR. LARSEN

69. Modern Physical Theories.—An advanced course embracing a study of electrical phenomena in gases, spectra, X-rays, photo-electric effects,

radioactivity, atomic structure, electrical phenomena in solids, and nuclear physics. Some attention is given to quantum and wave mechanics. Open to students who have completed Course 17, 18 or its equivalent and can use the calculus. *Three hours a week. Three credit hours.* MR. WILLIAMS

72. Light.—An advanced course in the study of light covering its velocity of propagation, reflection, refraction, diffraction, interference, and polarization. It also includes a study of optical instruments. Open to advanced students who can use the calculus and have credit for 17, 18 or its equivalent. *Three hours a week. Three credit hours.* MR. BENNETT

81. 82. Advanced Laboratory Physics.—In this course selected advanced experiments are performed by the student under the supervision of some member of the staff. Opportunity is also given to develop original ideas and to construct original apparatus as part of the work. Courses 19, 20, or 21, (22) and 24 are prerequisite. *Credits, arranged.*

MEMBERS OF THE DEPARTMENTAL STAFF

97. 98. Physics Seminar.—Topics recently considered include Quantum Mechanics, Statistical Mechanics, and Nuclear Physics. *Credit, arranged.*

MEMBERS OF THE DEPARTMENTAL STAFF

101. 102. Special Laboratory.—An original investigation, open only to graduate students. It is not expected in this course that a student will confine his work to a minimum number of hours a week. *Credits arranged.*

MEMBERS OF THE DEPARTMENTAL STAFF

125. Graduate Thesis.—*Credit, arranged.*

MEMBERS OF THE DEPARTMENTAL STAFF

PSYCHOLOGY

PROFESSOR DICKINSON; ASSOCIATE PROFESSOR BRUSH;
DR. GLANVILLE; DR. WHITE; MR. GEBHARD

Psychology includes a study of mind and of modes of behavior. It offers the student an opportunity to acquaint himself at first hand with the fundamental laws of the psychophysical organism. Through a study of the child, the normal adult, and the abnormal individual, it enables him to gain an insight into personality development and the problems of human adjustment. Through experience with psychological tests and the techniques of testing he comes to a more practical understanding of intelligence.

In its ramifications psychology borders upon the natural as well as the

social sciences. It is most closely allied, however, with education, zoology, economics, sociology, and philosophy.

The Department of Psychology offers a counseling service for students in the College of Arts and Sciences; for others by special request.

Some of the occupations which courses offered in the department lead toward are: advertising and selling, clinical psychology, personnel work in business and industry, psychiatric and general social work.

Students may combine a major in Psychology with any other of the Social Sciences; Economics, Government, History, Philosophy, Sociology, or with Education or Zoology.

Psychology 0. *The Technique of Effective Reading.*—An analysis of the individual student's reading habits is followed by an intensive program of training designed to increase efficiency in reading. Limited to twenty-five students. *Elective. No credit. Two laboratory periods a week.* MR. WHITE

1; 2. *General Psychology.*—A basic course designed to give a general introduction to the field of psychology and to relate its subject matter to everyday life. A systematic survey of such topics as learning and memory, thinking, imagination, intelligence, personality, motivation, observation, the development and the physiological basis of behavior; a brief discussion of some of the special fields of psychology, e.g., applied, child, social, abnormal. *A weekly laboratory period. Classroom, two hours a week; laboratory, two hours a week. Three credit hours.* THE DEPARTMENTAL STAFF

3. *Applied Psychology.*—Psychology applied to industry, business, advertising, salesmanship, and other fields. The application of psychological methods and tests in the selection and training of workers. Open only to Technology students in Mechanical Engineering. *Three hours a week.*

MR. BRUSH

12. *Advertising and Selling.*—A course designed to acquaint the student with the psychological principles involved in advertising and selling. Practical application of these principles in rewriting advertisements appearing in newspapers and magazines, and in the developing of an advertising and selling campaign in relation to an actual product. Prerequisite, Course 1, or permission of the instructor. *Three hours a week.* MR. DICKINSON

53. *Clinical Techniques in Reading.*—A study of the reading process, and of the causes and the diagnosis of reading defects. Students will receive clinical experience through the application of remedial procedures to individuals with reading difficulties. Prerequisite, Course 1; 2. Classroom, *one hour a week; laboratory, two hours a week. Two credit hours.*

65. *Psychology of Adolescence.*—A study of the physical and mental changes which occur at this period. Learning, memory and reasoning, emotional maturing, personality development and disturbances of personality are among the items considered. Prerequisite, Course 1. 2. *Two hours a week.*

MR. BRUSH

66. *Educational Psychology.*—The application of psychological facts, principles, and points of view to education. Consideration of growth during the school years, with attention to social, emotional and intellectual development. Learning in schools; its nature and control, its permanence and effects on attitudes, interests and appreciations; the problem of transfer of training. Prerequisite, Course 1. 2. *Three hours a week.*

MR. WHITE

67. *Psychology of Childhood.*—A study of the mental growth of the child to twelve years of age. Native equipment, environmental influences, the development of motor and behavior patterns, speech, inference, judgment, etc., are given consideration. Modern experimental techniques of child study are discussed. Five thousand feet of motion pictures are available. Prerequisite, Course 1. 2, with a grade of C or better. *Three hours a week.*

MR. DICKINSON

69; 70. *Experimental Approach to Psychological Problems.*—The first semester aims to acquaint the student with experimental techniques and to orient him in the objective approach to problems. In the second semester these techniques will be applied to the problems of reaction time, susceptibility to glare, night blindness, safety, etc., in automobile driving, and to other problems of a practical nature. Prerequisite, Course 1; 2. *Three hours a week.*

MR. GLANVILLE

71. 72. *Abnormal Psychology and Mental Hygiene.*—A study of mental abnormalities followed by a study of the normal mentality, with a view to a better understanding of educational practice and the problems of human adjustment. Through the coöperation of Dr. C. J. Hedin, superintendent, five clinics are conducted at the Bangor State Hospital on the following Tuesday afternoons from two until four o'clock: October 22, November 5, 19, December 3, 10. Attendance at the clinics is required. Prerequisite, Course 1. 2, with a grade of C or better. *Three hours a week.*

MR. DICKINSON

76. *Social Psychology.*—The development of social behavior in the individual; personality in its relation to the social environment; social attitudes; forms of social interaction; the psychological basis of propaganda, crowd behavior and other forms of group activity. Prerequisite, Course 1. 2. *Three hours a week.*

MR. BRUSH

77. *The Psychology of Personality.*—A consideration of the various current approaches to the psychological study of personality. The development of personality and its relation to biological and social factors. The analysis of personality into constituent traits; the structure and organization of personality. Personality measurement. The understanding of personality. Alternates with Py 65 Psychology of Adolescence. To be given in 1940. Prerequisite, Course 1; 2. *Two hours a week.* MR. BRUSH

81; 82. *Mental Measurement.*—Training in the use of psychometric methods, with opportunity for their application to practical or research problems. During the first semester the emphasis is upon technical training, during the second upon the application to problems. Primarily for seniors and graduate students who plan to enter the teaching profession, social service, or personnel work. Prerequisite, Course 1. 2. *Three hours a week.*

MR. BRUSH, MR. GLANVILLE

91. 92. *Problems in Psychology.*—Primarily for graduate students and seniors with a rank of B or better. The self-active student has here an opportunity to select and attack particular psychological problems with the benefits of criticism and suggestions from the instructor at stated intervals. Admission by consent of the instructor. *Hours arranged.*

MR. DICKINSON AND STAFF

93. 94. *Seminar in Psychology.*—Advanced work for graduate students, psychology majors, and other interested and qualified persons. In successive semesters the subject matter includes history of psychology; systems and schools of psychology; current psychological experimental literature; etc. Required of all Psychology majors; prerequisite for others, permission of the instructor. *Two hours a week.* MR. DICKINSON

RELIGION

MR. BEVERAGE

1. 2. *A Survey of Old Testament History and Literature.*—A course intended to enable students to understand the great moral, ethical, and religious heritage of ancient Hebrew civilization. Lectures, discussions, and supplementary readings are designed to furnish a comprehensive view of the economic, geographic, historical, and sociological forces which produced the great achievements of the Old Testament records. *Three hours a week. Three credit hours.*

3. 4. Religion and Modern Life.—A study of the essential nature and function of religion in contemporary society, based upon an historical survey of the origin and development of the religious consciousness. Assigned readings will supplement lectures and discussions directed towards the development of students' ability and desire to evaluate for themselves both the theoretical and practical application of our great religious tradition. *Two hours a week. Two credit hours.*

ROMANCE LANGUAGES

PROFESSOR PETERSON; ASSISTANT PROFESSORS ARNOLD, BUZZELL, AND
VIGNERAS; DR. STARR

The Department of Romance Languages offers in its French courses the opportunity to perfect one's self in writing and speaking the language. The more elementary courses provide primarily practice in reading; in subsequent years the structure and development of the language are set forth in the linguistic courses, while the customs and manners of the people are discussed in the classes in conversation. The chief literary works are carefully read and interpreted, and the student is encouraged to develop independence of critical judgment. The student is thus given an opportunity through first-hand acquaintance with the language and literature of a people to establish direct relationship with its culture.

A more limited range of courses is available in Spanish and Italian, but their aim, so far as time permits, is the same as that of the work in French.

Students concentrating in French are required to elect a minimum of 22 hours in the junior and senior years. Courses 21, 22; 27, 28; 29, 30 may not ordinarily be included in this number, being intended primarily for sophomores. Twelve of the 22 hours must be in literature. Major students are advised to secure some familiarity with another modern language or to continue Latin. They are expected to take at least a year in European history, a requirement which may be met by History 5, 6 or the course on Western Civilization.

Students may also concentrate in the general field of Romance Languages, electing, in the junior and senior years, a total of 24 hours of suitable courses in French, Spanish, and Italian. Students whose main interest is Spanish should register for History 65, 66 (Latin American History).

Students not concentrating in Romance Languages but expecting to teach them will be recommended for the teacher's certificate if they elect one year-course in literature and two year-courses in oral French. This same basic

program is recommended also for those who take French with a view to diplomatic and consular service or positions in the foreign department of city banks or foreign posts in other industries. The oral work especially is suggested for those interested in art and music, secretarial work, and department store buying.

French

BASIC COURSES

These courses, intended for freshmen, are designed to teach the student to read at sight the French of representative authors. The material is chosen from writers of the modern period.

3: 4. *Intermediate French.*—Reading of narratives, with grammar review. Attention to pronunciation and exactness of translation. For students offering two units of French as an entrance requirement and for those offering three units whose preparation is inadequate for Course 5, 6. In the latter case only three hours of credit are allowed. *Four hours a week.*

MISS BUZZELL, MR. VIGNERAS

5. 6. *Advanced French.*—Reading of novels and short stories, some intensively, others more rapidly, to secure facility in the comprehension of present-day French prose. Study of idioms and word usage. Accuracy in translation is stressed. Open to students offering three units of French as an entrance requirement and to exceptional students offering two units. *Three hours a week.* MR. PETERSON, MR. VIGNERAS, MISS BUZZELL, MR. STARR

GENERAL LANGUAGE AND LITERATURE COURSES

7. 8. *Elementary Conversation and Composition.*—Grammar review and constant drill in spoken French to acquire a practical vocabulary and achieve correct speech. Open to students who have offered three units of French for entrance or who have completed Course 3, 4. *Two hours a week.*

MR. PETERSON, MISS BUZZELL

8a. *Elementary Conversation and Composition.*—An intensive second-semester course covering the same material as Course 7, 8. Open to students whose previous record in the subject is above the average. *Two hours a week.*

MR. PETERSON, MISS BUZZELL

9. 10. *Advanced Conversation and Composition.*—The aim of the course is to enable the student, through discussion of the customs and inter-

ests of every-day French life, to express himself readily in colloquial French. Required of all majors and students planning to teach French. *Two hours a week.* MR. VIGNERAS, MR. STARR

9a, 10a. French Civilization.—A survey of French civilization designed for students taking concurrently Course 9, 10, and required of majors in French. *One hour a week.* MR. VIGNERAS, MR. STARR

Course 5, 6 or the equivalent is a prerequisite for all courses listed below. Students who have not passed a reading test should register for Course 17, 18. Those who have passed a reading test may elect either Course 21, 22 or 29, 30 (27, 28), one of which is a prerequisite for courses in literature numbered above 50.

17. 18. Rapid Reading Course.—A continuation of Course 5, 6 designed to promote facility in reading for those who have not passed a reading test. *Three hours a week.* MISS BUZZELL

21. 22. The Novel in the Nineteenth Century.—A study of the renewal of French literary inspiration by Chateaubriand and Victor Hugo and the development of the realistic novel by Balzac, Flaubert, and others. Reading of examples of both Romantic and Realistic fiction. *Three hours a week.* MR. STARR

27. 28. Social and Political Trends.—The reading of modern writers dealing with trends and problems in economics, government, and other social sciences and the background of modern society. Collateral reading by the student in the field of his special interest. Alternates with Course 29, 30; not offered in 1940-41. *Three hours a week.* MR. VIGNERAS

29. 30. Contemporary Literature.—Similar in scope to Course 27, 28 but with more attention to the novel and drama. A brief review of literary trends from 1880 to the World War, followed by an intensive study of the post-war period with emphasis upon economic, social, and political influences. Alternates with Course 27, 28; offered in 1940-41. *Three hours a week.*

MR. VIGNERAS

MORE ADVANCED COURSES

The following courses are conducted mainly in French

55. 56. The Theatre in the Nineteenth Century.—A study of the great dramatists of modern France with lectures on the development of the theatre. Reading of plays of the Romantic and Realistic schools, and as an introduction four eighteenth-century plays. An effort is made to develop

independent criticism of style and technique. Alternates with Course 63, 64; not offered in 1940-41. *Three hours a week.* MR. PETERSON

57. 58. French for Prospective Teachers.—In the first semester, a review of French history in its relation to French literature, twice a week, and a study of phonetics, once a week. Second semester, a critical study of textbooks, teaching aids (maps, posters, slides, films, charts), the organization and conduct of school French clubs, French customs, with attention to methods of teaching, twice a week; a review of grammar stressing the common difficulties confronting the teacher in the secondary school, once a week. *Three hours a week.* MISS BUZZELL, MR. PETERSON

63. 64. French Classical Literature.—A study of the leading characteristics of the seventeenth and eighteenth centuries. Reading of masterpieces of the classical dramatists and selections from La Fontaine, Voltaire, Montesquieu, Rousseau, and other writers. Alternates with Course 55, 56; offered in 1940-41. *Three hours a week.* MR. PETERSON

67. 68. Survey of French Literature.—A summary of the growth of French literature from the Middle Ages to the present day, with emphasis upon the important literary movements. Reading of selections representing literary forms and periods not covered in other courses. Alternates with Course 57, 58; offered in 1940-41. *Two hours a week.* MR. VIGNERAS

Italian

1, 2. Elementary Italian.—A course for beginners, which includes a study of the basic principles of Italian grammar, pronunciation exercises, dictation, oral practice, and composition. Reading is begun at an early date, and emphasis is laid upon the acquisition of an adequate vocabulary and facility in reading. Alternates with Course 3, 4; not offered in 1940-41. *Three hours a week.* MR. STARR

3, 4. Modern Italian Prose.—Selections from representative authors of the nineteenth and twentieth centuries are studied in an endeavor to acquire a larger vocabulary and increased facility in reading. Review of the grammar, composition, and oral practice. Designed for second-year students. *Two hours a week.* MR. STARR

52. Dante and the Italian Renaissance.—This course may be offered in place of Italian 4 when there is sufficient demand. *Credit, arranged.*

Spanish

1-2. Elementary Spanish.—A course for beginners, which includes a study of the basic principles of Spanish grammar, pronunciation exercises, dictation, oral practice, and composition, with especial attention to the mastery of verb forms and pronouns. Reading is begun at an early date, and emphasis is laid upon the acquirement of an adequate vocabulary. *Four hours a week.*

MISS ARNOLD

1a-2a; 2b. Elementary Spanish.—Similar in content to Course 1, 2 but extends through three semesters and includes a larger amount of reading. The class begins in the second semester and is continued through the following year. *Three hours a week.*

MISS ARNOLD

3. 4. Modern Spanish Prose.—The principal aim of this course is to secure facility in the reading and comprehension of ordinary Spanish prose of the modern period. Certain books—novels, short stories, and plays—are studied intensively while others are read more rapidly. Review of grammar, study of idioms, and oral practice. Designed for second-year students. *Three hours a week.*

MISS ARNOLD

5. 6. Elementary Conversation and Composition.—Stress is laid upon the acquisition of a practical vocabulary by means of exercises based upon Spanish newspapers. Study of the grammar and translation into Spanish. Designed for third-year students or for second-year students who are pursuing at the same time Course 3, 4. *Two hours a week.*

MISS ARNOLD

7. Commercial Spanish.—The object of this course is to acquaint the student with the forms of private and commercial correspondence and the vocabulary used in the business world. Reading of selections dealing with industrial and commercial life. Given occasionally. *Three hours a week.*

MISS ARNOLD

9. 10. Rapid Reading Course.—A continuation of Course 3, 4 designed especially to promote facility in reading. The material read, consisting largely of narratives, will be limited to the modern period. *Two hours a week.*

MISS ARNOLD

57. 58. Survey of Spanish Literature.—A study of the development of the various literary forms in Spain and the reading of selections from representative authors of various periods. Some attention is given to Spanish-American writers. Given occasionally. *Three hours a week.*

MR. PETERSON

MODERN SOCIETY AND WESTERN CIVILIZATION

There are four primary objectives in the two-year sequences of Modern Society and Western Civilization: to understand contemporary society; to understand the continuity and value of the historical process; to relate the present scene to its historical background; and to develop a method of critical analysis. These courses are designed to furnish an orientation in the social sciences during the first two years of the college program.

SPEECH

PROFESSOR BAILEY; ASSISTANT PROFESSORS BRICKER AND RUNION;
MR. DUSENBURY; MR. WETHERBEE

The primary function of the Department of Speech is to offer courses in all phases of speech education, including formal and informal speech, debate, radio, voice, speech correction, expression, and theatre.

Within the field of speech it is possible to plan a major curriculum which emphasizes the phase of work of most interest to the student. The student is advised, however, to have a broad general background in speech, especially if he desires to teach speech in the high school.

For all majors in Speech both an oral and written comprehensive examination is required. The examination naturally varies according to the major curriculum followed by the student.

Students interested primarily in the theatre are required to give a recital of approved standard, or direct, or take part in a major role in a dramatic production. Major students other than those interested in the theatre are expected to present a forty-five minute address before some civic organization such as a service club, church organization, or similar groups.

Basic courses in speech required of all majors are Sh 1 (2), Sh 3 (4), Sh 7, and Sh 15.

0. Speech Correction.—Open to students with speech defects. The method of instruction is largely individual. *No credit.*

MR. RUNION, MR. DUSENBURY

1 (2). Public Speaking.—A basic course in public speaking. The student is taught to organize material and to deliver short extemporaneous speeches. Each student is required to have a recording made of his speech. *Two hours a week.*

THE STAFF

3 (4). Debate.—Questions of state, national, and international importance are debated in class. Students expecting to do advanced work

in debating are advised to take this course as early in their college career as possible. (Open to freshmen with special permission of instructor.) *Two hours a week.* MR. RUNION

6. *Persuasive Speech.*—Course 6 is a continuation of Course 1. The object of the course is to train students to organize their material persuasively, to continue extemporaneous speaking, to give the student practice in organizing and delivering oral reports, and to train the student in the principles of effective conference speaking. Prerequisite, Course 1 (2). *Two hours a week.* THE STAFF

7. *Interpretative Reading.*—The oral presentation of selections from prose, poetry, and drama form the basis of this course. Choral Reading and Program Reading are likewise considered. This course is recommended especially to the teacher of English who may wish to improve his oral interpretation of literature. (Open to freshmen.) *Two hours a week.*

MR. BAILEY, MR. DUSENBURY

8. *Program Reading.*—This course is a continuation of Course 7 with emphasis upon program building. Choral reading, plays, and longer readings are the material for the course. Outstanding textbooks in the field of Interpretation are discussed and reviewed. Prerequisite, Course 7 or permission of instructor. *Two hours a week.* MR. BAILEY, MR. DUSENBURY

12. *Parliamentary Law.*—A course stressing principles of Parliamentary procedure and methods of conducting a meeting. The class organizes as a Parliamentary Society, constructing and adopting a constitution and by-laws. Each student will have an opportunity to preside. No prerequisite. *One hour a week.* MR. RUNION

19. 20. *Advanced Debate.*—A course designed to meet the need of the student who desires advanced work in debate, or who wishes to direct or teach debating, or take part in intercollegiate debate. An individual program is worked out for each student enrolled. Prerequisite, four hours in speech courses or permission of the instructor. *One hour a week.*

MR. RUNION

21 (22). *Radio Speaking.*—A semester course stressing the qualities necessary for effective radio speaking, with emphasis on voice, diction, enunciation, and pronunciation. The course includes critical analysis of current radio programs; also, the writing of radio scripts, sports, news, and commercial copy. Students are offered opportunity to participate in radio programs broadcast from the studios on the campus. Prerequisite, Course 1, or permission of instructor. *Two hours a week.* MR. DUSENBURY

42. Pre-Legal Speaking.—This course is primarily designed for those who plan to study law. Court room procedure is followed. Each student acts as prosecuting and defense attorney, judge and witness. Legal briefs are prepared. Trips will be made to a circuit court in Bangor. Prerequisite, Course 1 (2). Not offered in 1940-41. *Three hours a week.* MR. RUNION

43 (44). Advanced Radio Speaking (Techniques of Radio Broadcasting).—A continuation of 21 (22) with special emphasis on production, program planning, writing, advertising, drama, journalism, and education as applied to radio. Students will serve as directors of educational broadcasts originating on the campus. Recordings of radio programs are studied and analyzed. Prerequisite, Course 21 (22), or by permission of instructor. *Two hours a week.* MR. DUSENBURY

46. Advanced Public Speaking.—Practice in the presentation of several longer speeches leading to the making of a forty-five minute address. A review and study of contemporary speeches. Prerequisite, Course 1, 3, or 6. Offered in 1940-41 and alternate years. *Two hours a week.* MR. DUSENBURY

52. Vocal Development.—The aims of this course are to improve the voice and to give training in distinguishing correct and defective sounds. The phonetic symbols of the International Phonetic Association are used. Prerequisite, Course 1 (2) or 7. Not offered in 1940-41. *Two hours a week.* MR. RUNION

59. Theory of Speech Composition.—Historical and critical survey of rhetorical theory from Aristotle to the present time with particular attention to Aristotle, Cicero, and Quintilian. Open to juniors and seniors. Offered in 1940-41 and alternate years. *Three hours a week.* MR. RUNION

67. Speech Pathology.—A course designed to acquaint the student with symptoms, causes, and treatments of disorders of speech and voice. Stuttering, articulatory defects, aphasia, and voice disorders are included. Open to juniors and seniors. *Three hours a week.* MR. RUNION

70. Teaching of Speech.—Consideration of teaching problems and technique with special emphasis on the speech program in the secondary schools. Supervision of extracurricular activities in speech. Study of textbooks. Open to juniors and seniors or by permission of instructor. Offered in 1940-41 and alternate years. *Three hours a week.* MR. RUNION

Courses in Theatre

Courses such as Drafting and Perspective given in the College of Technology, Design and History of Costume given in the College of Agriculture,

and Fencing and Modern Dance given in Physical Education will serve to give our drama majors a well-rounded course.

9 (10). Theatre Appreciation.—A lecture course for students wishing to cultivate an appreciation for the present-day theatre. Topics presented: dramatic theory and criticism, problems of our theatre today, drama books and magazines, actors, scene designers, directors, producers, playwrights, etc. Open to all University students. An elementary course for drama majors. *Two credit hours.* MR. BRICKER

15. Elementary Acting.—A course designed to emphasize the fundamentals in theory and in practice. Lectures and classroom exercises. Public recitals for students who have attained a degree of technique. Open to freshmen. *Four hours a week. Three credit hours.* MR. WETHERBEE

17. Stagecraft.—Practical experience in building and painting scenery, and in scene designing and lighting. Open to freshmen. *Four hours a week. Three credit hours.* MR. WETHERBEE

28. Scene Designing and Lighting.—The artistic principles of scene designing and lighting. Lectures and exercises. Prerequisite, Course 17. *Two credit hours.* MR. WETHERBEE

30. Advanced Acting.—A study of acting technique. An opportunity to study several roles during the year. Public recitals. Prerequisite, Course 15. *Four hours a week. Three credit hours.* MR. BRICKER

32. Costume.—Costume designing for definite play characters. Conference and laboratory. Prerequisite, Course 28. Not offered in 1940-41. *Two credit hours.* MR. BRICKER

35. Make-up.—Practice in making up all types of characters. *Two hours a week. One credit hour.* MR. BRICKER

37, 38, a-f.—Theatre Projects.—Advanced work in one or more of the following divisions of the theatre: acting, designing, costuming, lighting, directing, and make-up. Admitted by permission. *Two credit hours.* MR. BRICKER

37a, 38a. Acting.

37b, 38b. Designing.

37c, 38c. Costuming.

37d, 38d. Lighting.

37e, 38e. Directing.

37f, 38f. Make-up.

Students are not permitted to take more than four hours of work in this course.

39, 40. Stage Directing.—A course giving the student, both in theory and practice, the principles of stage directing. Admitted by permission. *Two credit hours.* MR. BRICKER

Gc 7, 8. Typewriting.—A beginning course in touch typewriting. Correct machine technique is stressed. Practice is given in the correct arrangement of business letters, use of carbon, addressing envelopes, tabulation, theme writing, cutting stencils, and in other business forms. Drills are given to acquire accuracy and speed. STORA EMMETT

Gc 9, 10. Shorthand.—A beginning course offered two semesters and aims to cover the principles of Gregg Shorthand. Considerable drill is given in the reading and writing of Shorthand. Special attention is given to transcription and the attractive arrangement of a typewritten letter or manuscript. Membership is anticipated in the Order of Gregg Artists, Theory and the Transcription clubs through coöperation with the Gregg Publishing Company. REGINA H. PREBLE

ZOOLOGY

PROFESSOR MURRAY; ASSISTANT PROFESSORS NELSON AND SPEICHER;
DR. COOPER; DR. FULLER; MISS DURICK; MISS MANSFIELD;
MR. KROLL; MR. TOPPING

Zoology is the branch of biological science which deals with the study of animal life. A knowledge of the general principles of zoology is prerequisite to an understanding of the relationships which exist between man and his natural environment, and serves as a basis for the study of the mental and social side of human behavior.

The Department offers curricula satisfying the requirements for admission to graduate, medical, dental, and nursing schools.

1. General Zoology.—A one-semester course in the fundamentals of zoology, illustrated by laboratory study of typical forms from the various groups of the animal kingdom. This course is designed to meet the requirements of students in the College of Agriculture. Together with Botany 2 it may be taken to fulfill the natural science requirement in the College of Arts and Sciences. Classroom, *two hours a week*; laboratory, *four hours a week*. *Four credit hours.* MR. MURRAY AND ASSISTANTS

3; 4. Animal Biology.—A two-semester course in the fundamental principles of animal life, with laboratory study of the structure and function of organ systems in typical forms from the various groups of the animal

kingdom. This course is prerequisite to all advanced courses in the Department and fulfills the natural science requirement in the College of Arts and Sciences. Classroom, *two hours a week*; laboratory, *four hours a week*. *Four credit hours*. MR. MURRAY, MR. SPEICHER, AND ASSISTANTS

7. Principles of Zoology.—A general course for the non-major student which emphasizes those fields of biology which directly affect man and his society. No formal laboratory work, but an opportunity is given for observation and study of selected biological material. Acceptable for the science requirement, but not for admission to advanced courses. Classroom, *two hours a week*; demonstration period, *two hours a week*. *Three credit hours*. MR. FULLER

9. Ichthyology.—A course which deals with the characteristics of fishes, their life histories and economic importance, with particular emphasis on the fresh-water species. Lectures, supplemented by laboratory study and dissection. Prerequisite, Zoology 1 or 3, 4. Classroom, *two hours a week*; laboratory, *four hours a week*. *Four credit hours*. MR. COOPER

10. Ornithology.—A course which deals with the characteristics of birds, their life histories and economic importance. Lectures supplemented by laboratory study of skins and mounted specimens, and directed field observation. Prerequisite, Zoology 1 or 3, 4. Classroom, *two hours a week*; laboratory, *four hours a week*. *Four credit hours*. MR. COOPER

12. Anatomy and Physiology.—A course which takes up the general principles of animal life and the structure and function of organs and organ systems, with special emphasis placed on higher mammalian forms. Designed for students in the Department of Home Economics, but open, by permission of the instructor, to all qualified women students. Classroom, *three hours a week*; laboratory, *four hours a week*. *Five credit hours*. MR. MURRAY, MR. FULLER

13. Mammalogy.—A course which deals with the characteristics of mammals, their life histories and economic importance. Lectures supplemented by laboratory study and dissection. Prerequisite, Zoology 1 or 3, 4. Classroom, *two hours a week*; laboratory, *four hours a week*. *Four credit hours*. MR. MURRAY

14. Animal Parasitology.—This course deals with the identification of the more important parasites, the study of their life histories, and the prevention, control, and cure of the diseases involved. Special emphasis is given to the parasites affecting game animals. Prerequisite, Zoology 1 or 3, 4. Classroom, *one hour a week*; laboratory, *four hours a week*. *Three credit hours*. MR. NELSON

15; 16. Comparative Anatomy.—A comparative study of the structure, origin, and history of the vertebrate organ-systems. Prerequisites, Zoology 1 and Botany 2, or Zoology 3, 4, passed satisfactorily. Classroom, *two hours a week*; laboratory, *four hours a week*. *Four credit hours*.

MR. NELSON

18. Vertebrate Embryology.—A study of the development and formation of tissues, organs, and organ-systems in vertebrates. Classroom, *two hours a week*; laboratory, *four hours a week*. *Four credit hours*.

MR. MURRAY

19. Fish Management.—This course deals with modern methods of fish management including fish culture and distribution, fisheries legislation, lake and stream surveys, and environmental improvements. Prerequisites, Zoology 9 and Entomology 26. First nine weeks of the first semester. Lecture, *one hour a week*; laboratory, *three hours a week*. *One credit hour*.

MR. COOPER

20. Fish Management.—Continuation of 19. Lecture, *two hours a week*; laboratory, *three hours a week*. *Three credit hours*.

MR. COOPER

21. Animal Ecology.—This course is a survey of the physical, chemical, and biological factors in the ecology of animals. Prerequisite, Zoology 10 and 13. First nine weeks of the first semester. Lecture, *two hours a week*. *One credit hour*.

MR. COOPER

22. Animal Ecology.—Continuation of 21. Lecture, *three hours a week*. *Three credit hours*.

MR. COOPER

37; 38. General Physiology.—A study of the physico-chemical forces of the vital processes of plants and animals; the more special phenomena in higher animals, with their bearing on human physiology. Prerequisites, two years of chemistry, one year of physics, and either Zoology 3, 4, or Zoology 1 and Botany 2. Classroom, *two hours a week*; laboratory, *four hours a week*. *Four credit hours*.

MR. FULLER

41. Histology.—A study of animal tissues and of the methods of preparing microscopic slides. Admission by arrangement with the instructor. Classroom, *one hour a week*; laboratory, *six hours a week*. *Three credit hours*.

MR. SPEICHER

44. History of Biology.—A discussion of the more important generalizations concerning the biological sciences designed to portray the growth and development of biological knowledge as a phase of intellectual culture, and to indicate the value of such knowledge to human welfare. Prerequisite, Zoology 1, 3-4, or 7. Classroom, *two hours a week*. *Two credit hours*.

MR. NELSON

47. 48. Problems in Zoology.—Open to juniors and seniors who may have special interest and special qualification in some branch of zoology. The approval of the instructor concerned must be obtained before registering for this work. *Credit, arranged.* THE STAFF

55. 56. Zoological Seminar.—A consideration of the current literature which expresses the trend of thought in biological science. Required of all senior majors and graduates majoring in zoology. Classroom, *one hour a week. One credit hour.* THE STAFF

66s. Marine Invertebrate Zoology. (Given at the University of Maine Biological Laboratory at Lamoine.)—This summer course is intended for students who have had some work in Zoology and who wish to gain first-hand acquaintance with living forms. It will consist of lectures and reading to cover the general field of invertebrate zoology from the systematic phylogenetic viewpoint as well as pointing out problems connected with the various groups: laboratory work will give an opportunity to study the anatomy of typical forms and follow out some of the problems discussed in the lectures; field trips will stress the collecting, classification, and habitat of local forms. Usually there will be a lecture every morning followed by a supervised laboratory both morning and afternoon, but two or three times a week there will be field trips, and, as there is a tide fall of over eleven feet, these trips must be arranged so that the work may be done on the low tide. *Six hours credit.*

MR. REINHARD, MR. SPEICHER, AND ASSISTANTS

Opportunity is given for graduate work in the various phases of zoology under the direction of the members of the Department. Students with adequate preparation may register by special written permission for the following courses with credit arranged:

105. 106. Problems in Zoology.

111. 112. Problems in Physiology.

109. Ichthyology; 110. Ornithology; 113. Mammalogy; 114. Parasitology; 115-116. Anatomy; 118. Embryology; 119-120. Fish Management; 121-122. Animal Ecology; 137-138. Physiology; 141. Histology.

125. Graduate Thesis.

School of Education

GENERAL INFORMATION

The School of Education offers professional training to secondary teachers, superintendents, principals, and supervisors. Students will ordinarily enter with Junior standing, having had the first two years of work in either a liberal arts college or a normal school. Those with a different type of training may enter as special students until junior standing is attained.

ADMISSION

Students in the College of Arts and Sciences

Those students in the College of Arts and Sciences of the University of Maine who plan to teach are given the opportunity to transfer to the School of Education at the beginning of their junior year. Such students should take the regular course as prescribed by the College of Arts and Sciences during the freshman and sophomore years, including in particular the course in General Psychology and such basic courses in other fields as will lay the foundation for a field of concentration.

At the beginning of the sophomore year, such students should register their intention to teach in the office of the Dean of the School of Education, and secure his approval as well as the approval of the Dean of the College of Arts and Sciences for their courses of study.

To be admitted to the School of Education, students must have made a grade of C or better in at least three-fourths of their entire work during the freshman and sophomore years.

These students will be candidates for the degree of Bachelor of Arts in Education on the completion of their program in the School of Education.

Normal School Graduates

Students in the normal schools who wish to qualify for the Maine secondary-school teacher's certificate should plan to transfer to the University at the end of their second year at the normal. Such students who rank in the upper half of their class and are recommended by their principal may be ad-

mitted to the School of Education with full junior standing, and may graduate on the satisfactory completion of two years of work.

Graduates of the three-year courses in the normal schools, who rank in the upper half of their classes and are recommended by their principal, may be admitted to the School of Education with Senior standing and may graduate on the satisfactory completion of one year of work. This program will not, however, qualify one for the secondary-teacher's certificate because the latter now requires at least two years of college work.

All normal-school graduates will be expected to meet the requirement of a field of concentration in academic subjects, except that those who plan to enter administrative or supervisory work, or to remain in elementary school work, may be permitted to take this work in Education and Psychology. In either case any work previously taken at the normal school which lies within the field chosen will be given due credit toward the requirements.

Normal-school graduates who are interested in entering the School of Education should request their principal to send a transcript of their record together with a statement giving their class rank to the Director of Admissions of the University. These should be accompanied by a recommendation of the candidate by the principal.

Students who come from the normal schools will ordinarily be candidates for the Bachelor of Science in Education degree.

Graduates of other types of teacher-training institutions will be considered on their merits as special cases.

Commercial Education

An arrangement has been made with the State Department of Education whereby graduates of the teacher-training departments of approved commercial schools may receive appropriate credit toward the degree of Bachelor of Science in Commercial Education. For further information inquiries should be addressed to the office of the School of Education.

Art Education

Students who complete an approved three-year curriculum in the Portland School of Fine and Applied Art and the Westbrook Junior College may transfer to the University with full credit and complete a curriculum which leads to the degree of Bachelor of Science in Fine Arts Education.

Music Education

Students who complete an approved two-year curriculum at the Northern Conservatory of Music in Bangor may transfer to the University with appropriate credit and complete in two years a curriculum which leads to the degree of Bachelor of Science in Music Education.

GRADUATION REQUIREMENTS

The equivalent of 125 hours of college work is required for graduation. Three-fourths of the work done while a student in the School of Education must be completed with grades of "C" or better.

It is expected that this proportion of "C" grades or better be maintained throughout the student's curriculum in the School of Education.

If, at the completion of 125 hours, the student has failed to maintain this proportion of "C" grades or better, the Dean shall determine whether and in what manner the deficiency may be made up. In no case may the student take more than six additional hours to satisfy the graduation requirement.

Approximately 24 hours will be required in Education and Psychology, and 40 to 50 hours in the field of concentration, all of which must be carried with a grade of "C" or better.

Professional Subjects Required

- Ed 29 (or 30)—Practice Teaching
- Ed 49 (or 50)—Seminar in Education
- Ed 51, 52, 53, or 54—History of Education
- Ed 59 (or 60)—Principles of Secondary Education
- Ed 65 (or 66)—Educational Measurement
- Ed 77 (or 78)—Principles and Methods of High School Teaching
- Py 1, 2—General Psychology
- Py 66—Educational Psychology
- Special Methods (one such course to be selected in a subject within the field of concentration)

Transfer students should plan to take a minimum of two courses in Education at the University regardless of the amount transferred.

Besides these specific requirements in strictly professional subjects, students will be strongly advised to take general courses in a number of sub-

jects of vital importance as a part of the background of any teacher or educator, such as biology, economics, English, history and government, and sociology.

Field of Concentration

In order better to meet the needs of the typical high-school situation, the traditional requirement of a single major subject will be replaced by that of a field of concentration in the academic subjects. This field of concentration must include a minimum of 40 to 50 semester hours in a group of related subjects commonly taught in the secondary schools, the exact amount to depend on the number and character of the subjects combined, and the quality of the work done. This work must be carried with a grade of "C" or better to qualify for a degree in Education, and must be acceptable to the heads of the departments in which it is taken.

This requirement applies to all students whether working for the Bachelor of Arts in Education or the Bachelor of Science in Education degree. Those, however, who have had teaching experience and who plan to enter administrative, supervisory, or elementary-school work may be permitted to carry their field of concentration in Education and Psychology instead of academic subjects.

Combinations of subjects which occur frequently in the secondary schools are as follows: French and Latin; English and History; Mathematics and the Natural Sciences; English and Latin; English and French; History and Latin; English, French, and Latin; English, History, and Latin; English, History, and French; History, Civics, Economics, and Sociology.

Subjects which occur in a large variety of combinations are Physical Education, Music, Debating, and Dramatics. Each student will be expected to take sufficient work to attain proficiency in at least one of these fields.

COMPREHENSIVE EXAMINATION

Seniors in the School of Education will take a comprehensive oral examination in the subject of education, to be given individually by arrangement during the month of May. Non-resident and summer session students will be expected to take the examination as well as regular resident students.

The main purpose of this requirement is to enable students in education to develop a better integration of their professional training and outlook. To facilitate this purpose and to compensate in part for the lack of a tutorial system which usually accompanies a system of comprehensive examinations,

a new course, Education 49 (50), is required of students one semester during their senior year.

HONORS COURSE

Attention is called to the tutorial honors course which is open to superior students in education who may desire to supplement their field of concentration by study under individual tutorial guidance. A fuller description of this course is to be found at the beginning of the section on General Courses.

RESIDENCE REQUIREMENT

A minimum of thirty semester hours of credit must be earned while in residence at the University to qualify a candidate for a degree. This requirement may be met by one academic year of residence, or in case of teachers by attendance in summer sessions. Five summer sessions may be accepted as the equivalent of one academic year provided the work is of distinctly high quality. In either case, this requirement must ordinarily be met after the student has become a candidate for a degree in the School of Education.

Exceptions to these rules will not be permitted except by a vote of the faculty.

A maximum of sixteen semester hours may be earned toward a degree by extension work, of which not over eight hours may be taken by correspondence. The amount permitted will be in proportion to the total amount of time spent at the University.

DEGREES

(1) Bachelor of Arts in Education. This degree will be given to students who do the first two years of work in the College of Arts and Sciences, or the equivalent thereof, meet their entrance requirements, and their curricular requirements for the first two years. Candidates for this degree will be required to complete a minimum of 40 to 50 hours in a group of related academic subjects which are commonly taught in the public schools, with a grade of "C" or better.

(2) Bachelor of Science in Education. This degree will be given to students who are admitted from normal schools with advanced standing. Requirements for the degree will include a field of concentration in the aca-

demic subjects as for the B.A. degree, and the same professional courses. In meeting both these requirements, however, due credit will be given for the courses which have been previously taken in the normal-school course.

(3) Bachelor of Science in Commercial Education. This degree has been established for graduates of approved teacher-training departments of commercial schools in Maine, who transfer to the School of Education on the completion of their course and complete the course approved for this degree.

(4) Bachelor of Science in Fine Arts Education. This degree is awarded to students who have completed the combined course of study at the Portland School of Fine and Applied Art and Westbrook Junior College and the final year of work as prescribed at the University of Maine.

(5) Bachelor of Science in Music Education. This degree is awarded those who have completed the combined curriculum at the Northern Conservatory of Music, in Bangor, and the University.

Courses of Instruction

Courses designated by an odd number are given in the fall semester, those designated by an even number, in the spring semester.

When a course is offered in the first semester and also repeated in the second, it is designated by two numbers, the second of which is in parenthesis.

A period between the numbers designating a two-semester course indicates either semester may be taken for credit.

Courses numbered 1-50 are for undergraduates only; courses numbered 51-100 are primarily for upperclassmen and graduates; courses numbered above 100 are primarily for graduates.

For courses in Psychology, see Department of Psychology in the College of Arts and Sciences.

PROFESSORS LUTES AND CHADBOURNE; ASSOCIATE PROFESSOR JACKMAN;
ASSISTANT PROFESSOR CRAWFORD

29 (30). Supervised Student Teaching.—A course in student teaching in academic subjects. Open to a limited number of seniors recommended by the Dean of the School of Education and approved by the heads of the academic departments. Preference is given to those who have completed Education 77 or 78. *Five hours a week. Three credit hours.* MR. JACKMAN

29a. Supervised Teaching in English.—Supervised tutoring of small groups of freshmen deficient in the mechanics of composition. Weekly conferences with the instructor in charge. Open to qualified seniors whose major subject is English. *Two class hours weekly, first or second half semester. One credit hour.* MR. JACKMAN, MRS. CRANDON

49 (50). Education Seminar.—This course is required of seniors in education one semester, and is designed to help integrate the various courses in education for the comprehensive examination. *Three hours a week.*

THE DEPARTMENTAL STAFF

51. History of Education in the United States.—A course which traces the evolution of education, educational institutions, school systems and practices of the American people. Open to juniors and seniors. *Three hours a week.* MISS CHADBOURNE

52. History of Education in Maine.—A study of the development of the educational system in the State from its earliest period to the present time. Open to juniors and seniors. *Three hours a week.*

MISS CHADBOURNE

53. *History of Ancient and Medieval Education.*—Historical analysis and interpretation of the more important elements in modern education derived from the Hebrews, Greeks, Romans, Middle Ages, and Renaissance. Open to juniors and seniors. *Three hours a week.* MISS CHADBOURNE

54. *History of Modern Education.*—Evolution of present-day educational theory; institutions and practices of modern civilizations from the time of the Reformation up to the present. Open to juniors and seniors. *Three hours a week.* MISS CHADBOURNE

56. *Maine School Law.*—The purpose of this course is to present the present-day Maine school law and the steps by which it has been evolved. Primarily for seniors and graduate students. *Two hours a week.* MISS CHADBOURNE

59 (60). *Principles of Secondary Education.*—A course in the application of the principles of education with special reference to the problems of high-school teaching. The aims of secondary education in a democracy in terms of skills, knowledges, tastes, and ideals which are demanded in modern life. Primarily for juniors and seniors. Open to sophomores by permission. *Three hours a week.* MR. LUTES

62. *Secondary School Administration and Supervision.*—A practical course for those who are looking forward to positions as high-school principals or supervisors. Problems of organization, teacher selection and rating, improvement of teachers in service, salary schedules, extracurricular activities, testing programs, and techniques of supervision will be emphasized. Primarily for seniors. Open to others by permission. *Three hours a week.* MR. LUTES

63. *Junior High School Education.*—The course presents a theory of the junior high school based upon the psychology of adolescence, and shows the consequences of such theory in the formation and treatment of curriculum. Open to juniors and seniors. Given in 1941-42 and alternate years. *Two hours a week.* MR. JACKMAN

65 (66). *Educational Measurements.*—An introduction to educational measurements including principles of measurements, informal and standardized educational tests, group mental tests, and the uses of elementary statistics in educational measurements. Open to juniors and seniors. *Three hours a week.* MR. CRAWFORD

68. *Educational and Vocational Guidance in Secondary Schools.*—The aim is to present to prospective teachers the general problem of guidance in junior and senior high schools, with especial reference to the voca-

tional phase, organization for guidance, necessary materials and techniques of counseling. Open to juniors and seniors. *Three hours a week.*

MR. JACKMAN

71. *Psychology of Secondary Education.*—A study of the adolescent age and its characteristics. Psychological principles which determine the scope and character of secondary education. Open to students who have passed Psychology 1, 2 with a grade of "C"; to others by permission. *Three hours a week.*

MR. LUTES

74. *Extracurricular Activities in the Secondary School.*—This course is designed to acquaint the prospective high-school teacher with the nature and scope of non-academic cultural and recreational activities related to the needs of adolescence, and to aid the teacher in developing a technique for their promotion, and for their correlation with the usual academic courses. Given in 1940-41 and alternate years. *Two hours a week.*

MR. JACKMAN

75. *Teaching the Social Studies in Secondary Schools.*—The purpose of the course is to acquaint the prospective teacher of the social sciences with a point of view and vital methods of presentation that will tend to make these subjects effective in the everyday problems of living. Open to juniors and seniors. Given in 1941-42 and alternate years. *Two hours a week.*

MR. JACKMAN

77 (78). *Methods of Teaching in Secondary Schools.*—A general course in methods for prospective high-school teachers. Open to seniors and juniors who have had General Psychology. *Three hours a week.*

MR. JACKMAN

81. *Supervision in the Elementary School.*—The theory of supervision in general and specific methods of supervision of the prominent elementary-school subjects will be considered. Open to normal-school graduates, and students with teaching experience. Others by permission. *Three hours a week.*

MR. CRAWFORD

84. *Administration of the Elementary School.*—A course for prospective superintendents and elementary-school principals. Open to normal-school graduates and students with teaching experience; to others by permission. *Three hours a week.*

MR. CRAWFORD

93. *Remedial Reading.*—A course designed to demonstrate methods of determining reading ability, and to present methods of preventing, analyzing and correcting reading difficulties. This course assumes a knowledge of either or both educational psychology and educational measurements. *Two hours a week.*

MR. CRAWFORD

UNIVERSITY OF MAINE

95. 96. *Philosophy of Education.*—A course for seniors and graduate students designed primarily for the reading and discussion of conflicting factors in education with a view to their criticism and coördination. *Two hours a week.* MISS CHADBOURNE

97. 98. *Current Problems in Education.*—Each student is assigned special problems in the field of education. Primarily for majors in education. Open by permission to others. Seniors only. *Two hours a week.*

MR. LUTES AND STAFF

105. *Methods of Research in Education.*—A course in principles and techniques of educational research. Designed primarily for graduate students writing theses in education. Opportunity will be afforded to use thesis problems to illustrate the principles and techniques emphasized in the course. This course will be required of graduate students majoring in education. *Two hours a week.* MR. LUTES

College of Technology

GENERAL INFORMATION

The College of Technology provides technical instruction in chemistry, various branches of engineering, engineering physics, and pulp and paper technology. The various engineering curricula have been arranged to fit the needs of most students. Although not stated in the outline of courses, bands of electives have been arranged for the student having decided aptitudes or preference, so that a sequence of studies in any one of several groups of non-technical subjects, which will especially train him for work in those fields in which he is interested, may be pursued. These elective groups are: (1) mathematics and science, (2) economics and psychology, (3) history, psychology, and sociology, (4) foreign language, (5) literature.

Those students showing marked inventive or research abilities are guided to studies in mathematics and science; those with tendencies for commercial or managerial work are advised to elect the second or third group; and for the students with strong preference for language or literature, the fourth and fifth groups are provided.

Orientation lectures, which engineering freshmen are required to attend, and conferences with faculty advisers during his first year are designed to assist the freshman in the final selection of his course.

Students taking Mathematics 11 and 12 in the freshman year, and Mathematics 7a and 8a in the sophomore year, are selected (by the Department of Mathematics and the College of Technology) on the basis of proficiency in mathematics.

Under each of the curricula described below is given a tabulated statement of the subjects pursued and the amount of work required. The College comprises:

Chemical Engineering Curriculum

Pulp and Paper Division

Administrative Option

Chemistry Curriculum

Civil Engineering Curriculum

Electrical Engineering Curriculum

Engineering Physics Curriculum

General Engineering Curriculum

Mechanical Engineering Curriculum

For Agricultural Engineering Curriculum, see page 98.

The following requirements for graduation are common to all curricula in this college:

1. A total of 143 semester hours exclusive of Military Training 1, 2, 3, and 4, and Physical Training. Three of these hours may be for thesis. Eight credit hours may be allowed for advanced military. Of the courses required for graduation, in which letter grades are given, 105 hours must be passed with a grade of C or above; or, in the case of those students who are excused from Military or who enter with advanced standing from other institutions, 70 per cent of the credit hours offered for graduation, in which letter grades are given, must be passed with a grade of C or above. This ratio of hours should be maintained throughout the course from the beginning.

2. Drawing, four semester hours.

3. Language: English and Public Speaking, twelve semester hours with a minimum of two semester hours and a maximum of four semester hours of Public Speaking.

4. Mathematics, eighteen semester hours.

5. Military science, seven semester hours. Physical Training, two years.

6. Science: Chemistry, eight semester hours; Physics, ten semester hours.

7. Comprehensive Examinations:

Qualifying examinations for sophomores are given at the end of the sophomore year and used as a guide, in conjunction with the actual student grades, to determine fitness to undertake the professional studies of the junior and senior years.

A comprehensive examination, which is given to all seniors, must be passed to the satisfaction of the major department.

At graduation in any of these curricula the student receives the degree of Bachelor of Science.

Upon the completion of one year's prescribed work in residence, including the presentation of a satisfactory thesis, he may receive the degree of Master of Science. Five or more years after graduation, upon the presentation of a satisfactory thesis and proofs of professional work, he may receive a professional degree.

Honors Course

Attention is called to the tutorial honors course which is open to superior students in engineering who may desire to supplement their field of concentration by study under individual tutorial guidance. A fuller description of this course is to be found at the beginning of the section devoted to General Courses.

Course Expenses

The following statement about the expenses incurred by students in the College is intended to supplement the material contained in the section on expenses, beginning on page 69.

For College of Technology students the minimum and maximum course expenses (includes required equipment, books, and supplies) are indicated in the following table:

	Fall Semester	Spring Semester
Freshmen	\$80.00*, †	\$7.00
Sophomores	50.00†-72.00†	11.00-20.00
Juniors	22.00 -43.00	10.00-23.00
Seniors	20.00 -39.00	10.00-28.00

* Includes \$18.50 for drawing equipment, which is used in all drawing courses.

† Includes a military deposit (\$30.00) for the entire year. Net cost of the course depends upon amount of equipment and clothing lost, destroyed, worn out, or held out by students, refund being made for that turned back in satisfactory condition to the Military Department.

Civil Engineering Summer Camp tuition for University of Maine students is \$15.00. All other students are charged regular Summer Session tuition.

MAINE TECHNOLOGY EXPERIMENT STATION

General Statement

By action of the Board of Trustees, June, 1915, the establishment of a Maine Technology Experiment Station was authorized. This station is under the direct control of the Dean of the College of Technology and the heads of the departments.

Income

The income of the Station is derived from University appropriations and from the State Highway Department.

Object

The objects of the Station are to carry on practical research in engineering subjects, make investigations for State boards and municipal authorities, furnish scientific information to the industries of the State, and distribute accurate scientific knowledge to the people of the State.

Equipment

Most of the Station offices and laboratories are at present located in Wingate Hall, described in the section on University buildings. The Station is well equipped for the testing of concrete and highway materials, both bituminous and non-bituminous. Crosby Mechanical Engineering Laboratory is available for researches in the fields of hydraulics, steam-engineering, gas-engineering, metallography, and strength of materials. The electrical power laboratory in Lord Hall includes among its equipment a 150,000 volt testing transformer and standard instruments for calibration purposes. The communication laboratories in this building offer facilities for telephone transmission testing and radio research. The division of Pulp and Paper Technology in Aubert Hall is equipped for the testing of pulp and paper products. The highway materials laboratory in the basement of Wingate Hall and the new soil mechanics laboratory in the basement of Lord Hall have been jointly equipped by the Civil Engineering Department, the Maine State Highway Department, and this Station.

Investigations

The principal line of research has been in the field of concrete and concrete materials. In this field, the Station, at the present time, is co-operating with the American Society for Testing Materials in the statistical analysis of data. As a result of the facilities offered by the new soil mechanics laboratory, research in soil mechanics has recently been undertaken. Researches are also being conducted in the electrical, mechanical, and chemical fields, as well as in the pulp and paper industry.

Publications

The Station issues two series of publications: Bulletins and Papers. It has issued thirty-five bulletins and thirty papers. The papers have been issued as reprints from such technical journals and magazines as: Proc. Nat. Acad. of Sciences, Proc. Am. Soc. for Testing Materials, Proc. Am. Conc.

Inst., Proc. Am. Soc. Eng., Electrical Engineering, Journal Me. Assn. of Engrs., Industrial and Engineering Chemistry, and Tech. Assn. of Pulp and Paper Industry.

CURRICULA

Freshman Year

Common to all engineering courses and Chemistry

FALL SEMESTER

SPRING SEMESTER

<i>Subject</i>				<i>Hours</i>				<i>Subject</i>				<i>Hours</i>			
				Rec.	Lab.	Cr.						Rec.	Lab.	Cr.	
Ch	1	Gen. Chemistry	....	2	4	4		Ch	2	Gen. Chemistry	...2	2	4	4	
Eh	1	Freshman Comp.	...	3	0	3		Eh	2	Freshman Comp.	..3	3	0	3	
Md	1	Funds. Draft.	.....	0	4	2		Md	2	Ely. Mach. Draft.	0	0	4	2	
Ms	1	Trigonometry	....	2	0	2		Ms	6	Anal. Geom.	.....	4	0	4	
Ms	3	Algebra	.....	2	0	2		Mt	2	Military	.....	2	1	1½	
Mt	1	Military	.....	2	1	1½		Ps	2b	General Physics	..4	4	2	5	
Ps	1b	General Physics	...	4	2	5		Pt	2	Phy. Education	..0	0	2	0	
Pt	1	Phy. Education	....	0	2	0		Gc	6	Orientation	.....	1	0	½	
Gc	5	Orientation	.....	1	0	½									

Chemical Engineering Curriculum

This curriculum is designed to train students to become chemical engineers and leads to the Bachelor of Science degree in Chemical Engineering. See Pulp and Paper Division, page 259. See Administrative Option, page 262. The first two years are quite similar to those under the Chemistry curriculum, but in the junior and senior years the students enrolled take fundamental courses in chemical engineering, supported by related work in other engineering fields.

Graduates will be prepared to enter the profession of chemical engineering and to occupy positions as production foremen, plant directors, research and chemical engineers in industrial plants. Chemical engineering graduates from this Department are now holding responsible positions as consulting chemical engineer, industrial sales engineer, assistant plant superintendent, research chemical engineer, research engineer and plant director. Graduates from recent classes hold such positions as examiner in U. S. Patent Office,

engineer, assistant traffic manager in a chemical company, and several positions designated as chemist. Superior students should give serious consideration to an additional year's study for the Master of Science degree in Chemical Engineering.

A course in Chemical Engineering Practice is open to a selected group of Chemical Engineering undergraduate and graduate students. By this arrangement seniors and graduate students may participate in investigations in actual plant operation, thus obtaining valuable and unusual experience.

The student must register for all courses listed for each semester, unless in exceptional circumstances he is permitted to substitute an approved elective for a course printed in italics. Courses in this group not italicized *must be passed* before he is eligible for graduation.

The student must select sufficient hours to bring his total to that required by the College, namely, 143 exclusive of Military. See also statements on pages 253 and 254.

Freshman Year

Common to all engineering courses. See page 257.

Sophomore Year

FALL SEMESTER				SPRING SEMESTER			
<i>Subject</i>		<i>Hours</i>		<i>Subject</i>		<i>Hours</i>	
		Lab. Rec. or Cr. Comp.				Lab. Rec. or Cr. Comp.	
Ch 41	Quant. Anal.	1	8 4	Ch 22	<i>Intro. Theoret.</i>		
Ch 51	Organic Chem.	3	4 5		<i>Chem.</i>	3 0 3	
ChE 33	Elementary			Ch 32a	Micro-Qual.		
	Stoichiometry	3	0 3		Anal.	2 3 3	
Ms 7	Diff. Calculus	5	0 5	Ch 52	Organic Chem.	3 4 5	
Mt 3	Military	2	1 2	Ee 30	Dir. Current		
Pt 3	Phy. Education	0	2 0		Mach.	2 0 2	
				Ms 8	Int. Calculus	5 0 5	
				Mt 4	Military	2 1 2	
				Pt 4	Phy. Education	0 2 0	

Junior Year

FALL SEMESTER

SPRING SEMESTER

<i>Subject</i>	<i>Hours</i>			<i>Subject</i>	<i>Hours</i>		
	Rec.	Lab. or Comp.	Cr.		Rec.	Lab. or Comp.	Cr.
Ch 71 Phys. Chem.	3	4	5	Ch 72 Phys. Chem.	3	4	5
ChE 75 Els. of Chem.				ChE 76 Els. of Chem.			
Eng.	3	0	3	Eng.	3	0	3
Ee 31 Alt. Currents	2	0	2	Gm 20 German for			
Ee 33 Elec. Lab.	0	3	1½	Chemists	3	0	3
Gm 19 German for				Mn 54 Mechanics	3	0	3
Chemists	3	0	3	Pb 2 Pub. Speaking ..	2	0	2
Mn 53 Mechanics.	3	0	3	Ps 82 Adv. Lab.			
				Physics	0	4	2

Senior Year

<i>Subject</i>	<i>Hours</i>			<i>Subject</i>	<i>Hours</i>		
	Rec.	Lab. or Comp.	Cr.		Rec.	Lab. or Comp.	Cr.
Ch 61 Technical Anal. ...	1	8	4	Ch 86 Journal Seminar	2	0	2
ChE 77 Inorgan. Tech.	3	0	3	ChE 50 Thesis	Arr		1-3
ChE 81 Chem. Eng. Lab. ...	1	4	3	ChE 78 Organ. Tech.	3	0	3
ChE 87 Chem. Eng.				ChE 82 Chem. Eng. Lab.	1	4	3
Practice	0	9	3	ChE 84 Unit Processes ..	1	4	3
Eh 5 Tech. Comp.	2	0	2	Eh 10 Modern Lit.	2	0	2
Me 43 Heat Eng.	3	0	3	Me 40 Mechanical Lab.	0	3	1½

Students desiring to elect any course may do so only with approval of the major instructor. Such free electives will be limited in number.

Pulp and Paper Division

This curriculum is offered to furnish training in the fundamentals of mathematics, chemistry, engineering, and pulp and paper technology. The first two years are identical with those under the Chemical Engineering curriculum, but in the junior and senior years the students enrolled take, in part, fundamental courses in chemical, electrical, and mechanical engineer-

ing, mechanics, and pulp and paper technology. Graduates in this Division, who receive the degree of Bachelor of Science in Chemical Engineering (Pulp and Paper Division), will be prepared to occupy positions as production foremen, salesmen, research chemists, and works-control chemists in pulp and paper plants and in chemical industries.

Credit will not be given for election of courses covering substantially the same ground as another elected or required course that has been passed, i.e., Ce 35 and Ce 26.

The student must register for all courses listed for each year. Courses not italicized in this group *must be passed* before he is eligible for graduation. Courses in italics may have an approved elective substituted for them.

All sophomore Pulp and Paper major students are required to take the Summer Mill Practice course or its equivalent.

Required for graduation: a total of 143 semester hours exclusive of Military and Physical Training. Three of these hours may be for thesis.

Freshman Year

Common to all engineering courses and Chemistry. See page 257.

Sophomore Year

Same as Chemical Engineering. See page 258.

Summer

<i>Subject</i>	<i>Hours. Cr.</i>
Pa 40s Summer Mill Practice	Arr.

Junior Year

FALL SEMESTER

SPRING SEMESTER

<i>Subject</i>				<i>Subject</i>			
<i>Hours</i>				<i>Hours</i>			
Rec. Lab. or Cr.				Rec. Lab. or Cr.			
Comp.				Comp.			
<i>Bt</i> 43	<i>Wood Iden.</i>	0	3 1	<i>Ch</i> 72	<i>Phys. Chem.</i>	3	4 5
<i>Ch</i> 71	<i>Phys. Chem.</i>	3	4 5	<i>ChE</i> 76	<i>Els. of Chem.</i>		
<i>ChE</i> 75	<i>Els. of Chem.</i>				<i>Eng.</i>	3	0 3
	<i>Eng.</i>	3	0 3	<i>Eh</i> 10	<i>Modern Lit.</i>	2	0 2
<i>Ee</i> 31	<i>Alt. Currents</i>	2	0 2	<i>Gm</i> 20	<i>German for</i>		
<i>Ee</i> 33	<i>Elec. Lab.</i>	0	3 1½		<i>Chemists</i>	3	0 3
<i>Gm</i> 19	<i>German for</i>			<i>Mn</i> 54	<i>Mechanics</i>	3	0 3
	<i>Chemists</i>	3	0 3	<i>Pa</i> 66	<i>Paper Tech.</i>	3	0 3
<i>Mn</i> 53	<i>Mechanics</i>	3	0 3	<i>Pb</i> 2	<i>Pub. Speaking</i>	2	0 2
<i>Pa</i> 65	<i>Pulp Tech.</i>	3	0 3		<i>Electives</i>	—	— —
	<i>Electives</i>	—	— —				

Senior Year

<i>Subject</i>				<i>Subject</i>			
<i>Hours</i>				<i>Hours</i>			
Rec. Lab. or Cr.				Rec. Lab. or Cr.			
Comp.				Comp.			
<i>ChE</i> 77	<i>Inorgan. Tech.</i>	3	0 3	<i>ChE</i> 78	<i>Organic Tech.</i>	3	0 3
<i>ChE</i> 81	<i>Chem. Eng. Lab.</i>	1	4 3	<i>ChE</i> 82	<i>Chem. Eng. Lab.</i>	1	4 3
<i>Eh</i> 5	<i>Tech. Comp.</i>	2	0 2	<i>ChE</i> 84	<i>Unit Processes</i>	1	4 3
<i>Me</i> 43	<i>Heat Eng.</i>	3	0 3	<i>Me</i> 40	<i>Mechanical Lab.</i>	0	3 1½
<i>Pa</i> 67	<i>Pulp Mfg.</i>			<i>Pa</i> 50	<i>Thesis</i>	<i>Arr</i>	1-3
	(9 wks.)	0	8 2	<i>Pa</i> 68	<i>Paper Mfg.</i>	0	4 2
<i>Pa</i> 83	<i>Chem. Eng. of</i>			<i>Pa</i> 82	<i>Pulp Coloring</i>		
	<i>Pulp and Paper</i>				<i>and Bleaching</i>	0	4 2
	<i>Mfg.</i>	3	0 3	<i>Pa</i> 86	<i>Cellulose</i>	0	4 2
<i>Pa</i> 87	<i>Paper Test. and</i>				<i>Electives</i>	—	— —
	<i>Anal.</i>	0	4 2				
<i>Pa</i> 89	<i>Pulp and Paper</i>						
	<i>Practice</i>	0	9 3				
	<i>Electives</i>	—	— —				

Administrative Option

An administrative option is available to a few students who desire to qualify for positions in the technical business and sales branches of chemical industries. Registration for this curriculum must be made before the second semester of the sophomore year. Substitution of italicized courses in the Chemical Engineering curriculum may be made with the approval of the head of the department. A superior scholastic record is required, and it is not possible to substitute for more than 17 nor less than 14 hours from the regular Chemical Engineering curriculum.

Chemistry Curriculum

The primary aim of the Chemistry curriculum is to present the principles and techniques of inorganic, analytical, organic, and physical chemistry. The training outlined in the Chemistry curriculum is designed to present to the student a very broad training in Chemistry and in related fields. In this way it is definitely contrasted with that training offered to the chemical engineer. Chemistry graduates will be prepared to undertake the great variety of problems which are the normal duties of a chemist.

The second aim is to develop a research attitude in the student as a preparation for graduate study and ultimately for research, industrial, and teaching positions in the chemical profession. Superior students should give serious consideration to the additional advantages offered by graduate study in chemistry.

Chemists who have graduated from this Department are now holding responsible positions as paint chemist, rubber chemist, consulting chemist, research chemist, university and secondary-school teachers of chemistry, development chemist, and chemist in United States and state experimental laboratories.

The student must register for all courses listed for each semester unless in exceptional circumstances he is permitted to substitute an approved elective for a course printed in italics. Courses not italicized must be passed before a student is eligible for graduation.

The student must elect eighteen additional credit hours in the humanities, which may be interpreted as non-specialized courses other than the physical sciences. From the electives the student must select ten credit hours in sciences, two in English and two in Public Speaking, and sufficient additional hours to bring his total to that required by the College, namely, 143 exclusive of Military.

Since every university granting the Ph.D. degree requires a reading knowledge of both French and German, it is advisable for the student who may continue with graduate work to be prepared in this respect.

Freshman Year

Common to all engineering courses and Chemistry. See page 257.

Sophomore Year

FALL SEMESTER

<i>Subject</i>	<i>Hours</i>		
	Rec.	Lab. or Comp.	Cr.
Ch 41 Quant. Anal.	1	8	4
Gm 19 German for Chemists	3	0	3
Ms 7 Diff. Calculus.....	5	0	5
Mt 3 Military	2	1	2
Pb 1 Pub. Speaking.....	2	0	2
Ps 17 Intermediate Physics	3	0	3
Pt 3 Phy. Education....	0	2	0
Electives	—	—	—

SPRING SEMESTER

<i>Subject</i>	<i>Hours</i>		
	Rec.	Lab. or Comp.	Cr.
Ch 22 Intro. Theoret. Chem.	3	0	3
Ch 32 Micro-Qual. Anal. 2	8		5
Gm 20 German for Chemists	3	0	3
Ms 8 Int. Calculus.....	5	0	5
Mt 4 Military	2	1	2
Ps 18 Intermediate Physics	3	0	3
Pt 4 Phy. Education...	0	2	0
Electives	—	—	—

Junior Year

<i>Subject</i>	<i>Hours</i>		
	Rec.	Lab. or Comp.	Cr.
Ch 51 Organic Chem.....	3	4	5
Ch 71 Phys. Chem.	3	4	5
Eh 9 Modern Lit.....	2	0	2
Gm 21 German for Chemists	3	0	3
Elective Humanities	—	—	—

<i>Subject</i>	<i>Hours</i>		
	Rec.	Lab. or Comp.	Cr.
Ch 52 Organic Chem.	3	4	5
Ch 72 Phys. Chem.....	3	4	5
Eh 6 Technical Comp....	2	0	2
Gm 22 German for Chemists	3	0	3
Elective Humanities	—	—	—

Senior Year

FALL SEMESTER				SPRING SEMESTER			
Subject	Hours			Subject	Hours		
	Rec.	Lab.			Rec.	Lab.	
		or	Cr.			or	Cr.
		Comp.			Comp.		
Ch 49 Thesis	Arr.		1-3	Ch 50 Thesis	Arr.		1-3
Ch 63 Intermed. Quant.				Ch 56 Struct. Matter* ..	2	0	2
Anal.	1	8	4	Ch 84 Metallurgy	3	0	3
Ch 73 Chem. Microscopy	0	6	2	Ch 86 Journal Seminar ..	2	0	2
Ch 89 Organic Prep.....	0	6	2	Ch 92 Intermed. Org.			
Ch 91 Intermed. Org.				Chem.	3	0	3
Chem.	3	0	3	Electives	—	—	6-8
Electives	—	—	4-6	* Alternates with Ch 54.			

Civil Engineering Curriculum

The object of the curriculum in Civil Engineering is to give the student a thorough knowledge of the principles underlying the profession.

The methods of instruction are recitations, lectures, original problems, work in the testing laboratories, field practice, and designing. Effort is made to acquaint the student with the best engineering practice and with the standard engineering literature. During each year it is the practice to have several lectures by engineers from other institutions and by those engaged only in practical work. These lectures tend to increase the interest of the student and to bring him in touch with men from outside his own institution.

The endeavor is made to impress upon the mind of the student that he must obtain experience and judgment, without which he can never become a successful engineer. Besides giving the student a technical training, an opportunity is offered for every student to form the basis of a liberal education.

The work of the first year is the same for all engineering students. The technical work begins in the fall semester of the second year with field work and the study of surveying. This technical work is gradually increased until the senior year, when it is nearly all professional. At the beginning of the senior year an opportunity is offered to elect one of three options. The first, called Option 1, consists of work in hydraulic engineering; the second, Option 2, consists of work in highway engineering; while Option 3 is specialized along the lines of sanitary engineering.

At present there is some demand for a course which will prepare a young man for work in the field of city management. After a careful sur-

vey of the needs of such a course, a five-year curriculum has been planned. The curriculum is not listed here but will be supplied upon request. Briefly it includes the major portion of Options 2 and 3 with a wide variety of elective courses in accounting, economics, history, and government.

Through the courtesy of the Bangor Hydro-Electric Company, their plant at Stillwater has been made available to the University for experimentation and research. Those students selecting Option 1 will determine the efficiency and cost of operation of the plant. A study will be made of its hydraulic design and structural features with a view to recommending improvements.

The facilities of the Maine State Highway Testing Laboratory are available for experimentation and research by students in the Civil Engineering Department. All students electing Option 2 make a complete design and cost estimate of a section of highway surveyed during Summer Camp.

Those students electing Option 3 coöperate with the State Public Health Department in making a sanitary survey of a nearby watershed which is a present or prospective source of public water supply. They also make a survey of the sanitary conditions in a nearby town.

Each student is urged to select a thesis, the treatment of which helps to develop initiative and original thought, besides treating in a comprehensive manner some subject in which he is most interested.

All sophomore Civil Engineering students are required to attend Summer Camp from June 11 to July 20, 1940.

Freshman Year

Common to all engineering courses and Chemistry. See page 257.

Sophomore Year

FALL SEMESTER

SPRING SEMESTER

<i>Subject</i>				<i>Subject</i>			
<i>Hours</i>				<i>Hours</i>			
Lab. Rec. or Cr. Comp.				Lab. Rec. or Cr. Comp.			
Ce	1	Plane Surveying	2 0 2	Ce	10	Curves and	
Ce	3	Field Work &				Earthwork	3 0 3
		Plotting	0 9 3	Ce	16	Geology	2 1½ 2½
Md	3	Des. Geometry	0 6 2	Ms	8	Int. Calculus	5 0 5
Ms	7	Diff. Calculus	5 0 5	Mt	4	Military	2 1 2
Mt	3	Military	2 1 2	Pb	6	Persuasive	
Pb	1	Pub. Speaking	2 0 2			Speech	2 0 2
Pt	3	Phy. Education	0 2 0	Ps	22	Mechanics &	
		Elective	— — —			Heat Lab.	0 4 2
				Pt	4	Phy. Education	0 2 0
						Elective	— — —

Summer Camp

<i>Subject</i>	<i>Hours Cr.</i>
Ce 11s Highway & Railroad	
Surveys	3
Ce 23s Geodetic & Topo-	
graphic Surveying	2
Ce 31s Hydrographic Sur-	
veying	1

Junior Year

<i>Subject</i>				<i>Subject</i>			
<i>Hours</i>				<i>Hours</i>			
Lab. Rec. or Cr. Comp.				Lab. Rec. or Cr. Comp.			
As	11	Pract. Astron.	2 1 2½	Ce	20	Structural & High-	
Ce	25	Eng. Geology	2 1½ 2½			way Materials	1 4 3
Ce	29	Highway Const.	2 0 2	Ce	26	Hydraulics	3 0 3
Ce	33	San. Eng. &		Ce	52	Theory & Des. of	
		Water Supply	2 3 3			Steel Structures	5 0 5
Mn	51	Mechanics	5 0 5	Mn	52	Mechanics	5 0 5
		Elective	— — —			Elective	— — —

Senior Year**FALL SEMESTER**

<i>Subject</i>	<i>Hours</i>		
	Rec.	Lab. or Comp.	Cr.
Ce 57 Conc. Structures & Foundations	5	0	5
Ce 59 Drafting	0	9	3
Ee 35 D. C. Machy.	2	0	2
Me 39 Mech. Lab.	0	3	1½
Highway Option			
Ce 53 Hyd. Eng.	0	2	1
Ce 63 Highway Econ.	3	0	3
Hydraulic Option			
Ce 51 Hyd. Eng.	0	4	2
Ce 55 Hydrology	2	0	2
Sanitary Option			
By 3 Bacteriology	2	0	2
Ce 71 Sanitary Eng.	2	0	2

SPRING SEMESTER

<i>Subject</i>	<i>Hours</i>		
	Rec.	Lab. or Comp.	Cr.
Ce 60 Drafting	0	6	2
Ee 36 Alt. Currents	2	0	2
Ee 38 Elec. Lab.	0	3	1½
Eh 6 Tech. Comp.	2	0	2
Ba 16 Business Law	3	0	3
Highway Option			
Ce 68 Highway Design	0	4	2
Ce 72 Highway Eng.	2	0	2
Hydraulic Option			
Ce 56 Hyd. Eng.	0	4	2
Me 78 Hyd. Lab.	0	3	1½
Sanitary Option			
By 2 Bacteriology	0	6	3
Ce 74 Sanitary Eng.	2	0	2

Electrical Engineering Curriculum

This curriculum is intended to provide the student with a thorough understanding of the underlying principles of electrical engineering and to develop an ability to solve problems of an engineering nature from commercial as well as technical premises. To accomplish this, the student first studies the various electrical laws and methods of electrical measurements and correlates them with various laws previously assimilated in the study of physics and mathematics. These studies are followed by more advanced courses involving the fundamental electrical laws and theories and showing their application to the design, operation, and performance of electrical apparatus such as is used in the generation of electrical energy or in transforming electrical energy into mechanical energy for the various commercial requirements.

Courses in communication engineering form an important division of the work offered by the Department. These courses aim to provide the student with a thorough understanding of the basic principles of electrical communication, and to familiarize him with the design and operating characteristics of communication systems and competent apparatus. Electrical

reproduction of sound for motion pictures is also treated, with some emphasis on architectural acoustics, speech, and hearing. Basic work in television and the industrial applications of vacuum tubes are made a part of the laboratory work of the Department.

It is the endeavor of the Department to acquaint the student with contemporary engineering practice, and, by persistent association of abstract analysis with practical problems, to equip him with the fundamentals of a successful career. Stress is laid upon the systematic reading of technical periodicals and the acquirement of a reference library. Effort is made to have lectures by active engineers and alumni following their profession, thus bringing the student into more intimate contact with the engineering world.

In addition to the purely electrical subjects, the student takes the customary work in mathematics, physics, mechanics, drawing, and allied engineering courses, together with the humanistic studies enumerated below.

Freshman Year

Common to all engineering courses and Chemistry. See page 257.

Sophomore Year

FALL SEMESTER				SPRING SEMESTER			
<i>Subject</i>		<i>Hours</i>		<i>Subject</i>		<i>Hours</i>	
		Rec.	Lab. or Cr. Comp.			Rec.	Lab. or Cr. Comp.
Ee	1 Els. Elec. Eng.	2	5 4	Ee	2 Els. Elec. Eng.	2	5 4
Es	1b Prin. of Econ.	2	0 2	Ce	2 Plane Surveying	1 $\frac{2}{3}$	$\frac{1}{3}$ 2
Md	3 Des. Geometry	0	6 2	Es	2b Prin. of Econ.	2	0 2
Ms	7 Diff. Calculus	5	0 5	Ms	8 Int. Calculus	5	0 5
Mt	3 Military	2	1 2	Mt	4 Military	2	1 2
Pb	1 Pub. Speaking	2	0 2	Pb	6 Persuasive Speech	2	0 2
Py	1 General Psychol- ogy	2	2 3	Py	2 General Psychol- ogy	2	2 3
Pt	3 Phy. Education	0	2 0	Pt	4 Phy. Education	0	2 0

Junior Year

FALL SEMESTER

Subject	Hours		
	Rec.	Lab. or Comp.	Cr.
Ee 13 Electronics	2	3	3
Ee 15 El. Cir. & Mach. ...	3	0	3
Ee 17 Elec. Lab.	1	3	2½
Eh 5 Tech. Comp.	2	0	2
Me 27 Kinematics	3	0	3
Mn 53 Mechanics	3	0	3
Options (One subject required)			
Ba 53 Money & Banking ...	3	0	3
Ms 57 Eng. Math.	3	0	3

SPRING SEMESTER

Subject	Hours		
	Rec.	Lab. or Comp.	Cr.
Ee 16 El. Cir. & Mach. ...	3	3	4
Ee 18 Elec. Lab.	1	3	2½
Ee 22 Tel. Com.	2	2	3
Ee 24 Tel. Lab.	0	3	1½
Me 44 Heat Eng.	3	0	3
Mn 54 Mechanics	3	0	3
Options (One subject required)			
Ba 54 Investments	3	0	3
Ms 58 Eng. Math.	3	0	3

Senior Year

Subject	Hours		
	Rec.	Lab. or Comp.	Cr.
Ee 51 Alt. Cur. Appar. ...	3	4	5
Ee 75 Elec. Lab.	1	3	2½
Options (Two subjects required)			
Ee 49 Thesis	Arr.		1-3
Ee 61 Illum. Eng.	3	0	3
Ee 63 Elec. Transp.	3	0	3
Ee 81 Comm. Eng.	0	4	2
Ee 83 Comm. Lab.	0	3	1½
Ee 85 Radio Eng.	2	2	3
Ee 87 Eng. Acoustics ...	2	0	2
Ee 91 Theory of Elect. ...	2	0	2
Ba 51 Corp. Finance.	3	0	3
Me 41 Mech. Lab.	0	3	1½
Me 45 Heat Eng.	3	0	3

Subject	Hours		
	Rec.	Lab. or Comp.	Cr.
Options (Six subjects required)			
Ee 10 Radio Operating ...	0	1½	½
Ee 50 Thesis	Arr.		1-3
Ee 56 Elec. Power Plants	3	0	3
Ee 58 Elec. Power Transm.	2	3	3
Ee 60 Adv. Elec. Mach. ...	3	0	3
Ee 76 Elec. Lab.	1	3	2½
Ee 84 Tel. Transm.	0	4	2
Ee 86 Radio Eng.	2	2	3
Ee 88 Radio Lab.	0	3	1½
Ee 92 Theory of Elect. ...	2	0	2
Ba 16 Business Law ...	3	0	3
Me 98 Management	2	0	2

Engineering Physics

The aim of this curriculum is to provide a fundamental background in science for those students who expect to enter the field of industrial physics and also for those who wish to prepare themselves for careers in research. There has been a growing demand on the part of industry for men trained primarily in physics in an engineering atmosphere. It is recognized that undergraduate specialization in one or more of the well-defined engineering fields is not a rigid requirement for success in industrial work. Certain students not only have an aptitude for but profit by an undergraduate curriculum primarily developed around basic courses in physics, chemistry, and mathematics beyond those required by engineering curricula generally. Physical engineering is a name sometimes used to characterize this field.

The work of the first year being the same for all engineering students, it is not until the fall of the second year that the added emphasis upon physics is realized. After this a sufficient amount of chemistry and mathematics is included in the curriculum along with courses in advanced physics to develop a sound scientific background. An opportunity is also provided through required or elective courses to gain an insight into several fields of engineering so that the student develops in an engineering atmosphere; there is more emphasis, however, on science than on engineering.

This course also prepares a student for graduate work in physics, if he is interested in further developing himself along research lines.

Freshman Year

Common to all engineering courses and Chemistry. See page 257.

Sophomore Year

FALL SEMESTER

SPRING SEMESTER

<i>Subject</i>		<i>Hours</i>			<i>Subject</i>		<i>Hours</i>		
		Rec.	Lab. or Comp.	Cr.			Rec.	Lab. or Comp.	Cr.
Ch 41a	Quant. Analysis	1	6	3	Ch 22	Intro. Theor.			
*Es 1b	Prin. of					Chem.	3	0	3
	Economics	2	0	2	*Es 2b	Prin. of			
*Gm 19	German for					Economics	2	0	2
	Chemists	3	0	3	*Gm 20	German for			
Ms 7	Diff. Calculus	5	0	5		Chemists	3	0	3
Mt 3	Military	2	1	2	Ms 8	Integ. Calculus	5	0	5
Pb 1	Public Speaking	2	0	2	Mt 4	Military	2	1	2
Ps 17	Intermed. Physics	3	0	3	Ps 18	Intermed. Physics	3	0	3
Ps 19	Int. Lab. Phys.	0	2	1	Ps 20	Int. Lab. Physics	0	2	1
Pt 3	Phys. Education	0	2	0	Pt 4	Phys. Education	0	2	0
Electives					Electives				
Md 3	Des. Geometry	0	6	2	Me 10	Machine Tool			
Me 9	Machine Tool					Lab.	0	4	1½
	Lab.	0	4	1½	Ps 10	Meteorology	3	0	3

Junior Year

<i>Subject</i>		<i>Hours</i>			<i>Subject</i>		<i>Hours</i>		
		Rec.	Lab. or Comp.	Cr.			Rec.	Lab. or Comp.	Cr.
*Ch 71	Physical Chem.	3	4	5	*Ch 72a	Physical Chem.	3	0	3
Eh 5	Technical Comp.	2	0	2	Eh 10	Modern Lit.	2	0	2
*Gm 21	German for				*Gm 22	German for			
	Chemists	3	0	3		Chemists	3	0	3
Mn 53	Mechanics	3	0	3	Mn 54	Mechanics	3	0	3
Ms 57	Eng. Math.	3	0	3	Ms 58	Eng. Math.	3	0	3
Ps 55	Elec. and Mag.	3	0	3	Ps 24	Elec. Meas.	0	4	2
Electives					Ps 72	Light	3	0	3
Ce 1	Plane Surveying	2	0	2	Electives				
Ee 1p	Els. Elec. Eng.	2	3	3	Ce 16	Geology	2	1½	2½
Pa 65	Pulp Technology	3	0	3	Ee 2p	Els. Elec. Eng.	2	3	3
Py 1	Gen. Psychology	2	2	3	Pa 66	Paper Tech.	3	0	3
Zo 3	Animal Biology	2	4	4	Py 2	Gen. Psychology	2	2	3
					Zo 4	Animal Biology	2	4	4

Senior Year

FALL SEMESTER

Subject	Hours		
	Rec.	Lab. or Comp.	Cr.
*Ch 51a Organic Chem....	3	0	3
Ee 35 D. C. Mach.....	2	0	2
Ps 69 Mod. Phys. Theo.	3	0	3
Ps 81 Adv. Lab. Phys....	Arr.		1-6
Electives			6

Electives

(In addition to the preceding)

ChE 75 Els. of Chem.			
Eng.	3	0	3
ChE 81 Chem. Eng. Lab.	1	4	3
Me 21 Mats. of Eng.....	2	0	2
Me 33 Heat Engineering	3	0	3
Ms 105 Vector Analysis ..	3	0	3
Ps 31 Photography	2	2	3

SPRING SEMESTER

Subject	Hours		
	Rec.	Lab. or Comp.	Cr.
Ee 36 Alt. Cur.....	2	0	2
Ps 50 Problems	Arr.		1-3
Ps 62 Heat and Thermo-			
dynamics	3	0	3
Ps 82 Adv. Lab. Phys....	Arr.		1-3
Electives			9

Electives

(In addition to the preceding)

Ce 26 Hydraulics	3	0	3
ChE 76 Els. of Chem.			
Eng.	3	0	3
ChE 82 Chem. Eng. Lab.	1	4	3
Ee 38 Electrical Lab. ..	0	3	1½
Me 22 Els. of Mech.			
Eng.	2	3½	3½
Me 34 Heat Eng.....	3	0	3
Ps 58 Math. Physics...	3	0	3
Ps 66 Vac. Tubes and			
Thermionic			
Phenomena	3	0	3

* Substitutions may be made for courses marked * providing they are approved by the department head, with the exception that at least one year of German should be taken before graduation.

General Engineering Curriculum

This curriculum is designed primarily to permit a selected few pre-eminently capable students the opportunity of pursuing a curriculum which gives a broad emphasis on the fundamentals of engineering and to develop themselves along lines of particular aptitudes or choice. The first objective is met by including such studies as qualitative and quantitative analysis, physical chemistry, chemical engineering, metallurgy, geology, thermody-

namics, the laws of the electric circuit, and the theory of structures. In addition to these studies in technical culture, a sequence of studies in any one of several groups in scientific culture, or liberal culture, is afforded.

These elective groups are: (1) mathematics and science, (2) economics and psychology, (3) history, psychology, and sociology, (4) foreign language, (5) literature.

This course is also particularly adapted to the needs of the student who prefers to specialize in a graduate rather than in an undergraduate course and can utilize the latter as preparation for the former. In such a case a student at the beginning of the sophomore year would definitely select certain fundamental studies in one of the four departments: Chemical Engineering, Civil Engineering, Electrical Engineering, or Mechanical Engineering, and pursue, during the course, a sequence of studies in that department.

Arrangements have been completed with the Department of Economics so that a student starting with certain electives in that department in the sophomore year would be able to obtain a degree of Master of Science in Economics by an additional fifth year of study, after obtaining the B.S. in General Engineering at the end of four years.

The Dean of the College is the adviser and registering officer for students in this course.

Freshman Year

Common to all engineering courses and Chemistry. See page 257.

Sophomore Year

FALL SEMESTER

<i>Subject</i>	<i>Hours</i>		
	Lab.	Rec.	or Cr.
	Comp.		
Ch 41 Quant. Anal.	1	8	4
Ee 1 Els. Elec. Eng.	2	5	4
Es 1a Prin. of Econ.	3	0	3
Md 3 Desc. Geometry ...	0	6	2
Ms 7 Diff. Calculus.	5	0	5
Mt 3 Military.	2	1	2
Pb 1 Public Speaking ...	2	0	2

SPRING SEMESTER

<i>Subject</i>	<i>Hours</i>		
	Lab.	Rec.	or Cr.
	Comp.		
Ce 2 Plane Sur. or	1 $\frac{2}{3}$	$\frac{1}{3}$	2
Ce 16 Geology.	2	1 $\frac{1}{2}$	2 $\frac{1}{2}$
Ch 32 Micro-Qual. Anal. ...	2	8	5
Ee 2 Els. Elec. Eng.	2	5	4
Es 2a Prin. of Econ.	3	0	3
Ms 8 Int. Calculus.	5	0	5
Mt 4 Military.	2	1	2

Junior Year

FALL SEMESTER				SPRING SEMESTER			
<i>Subject</i>		<i>Hours</i>		<i>Subject</i>		<i>Hours</i>	
		Rec.	Lab. or Comp.			Rec.	Lab. or Comp.
Ba 9	Accounting	—	—	3	Ba 10	Accounting	— — 3
Ch 71	Physical Chem.	3	4	5	Ce 26	Hydraulics	3 0 3
Ee 13	Electronics	2	3	3	Ch 72	Physical Chem.	3 4 5
Ee 15	El. Cir. & Mach.	3	0	3	Ee 16	El. Cir. & Mach.	3 3 4
Ee 17	Elec. Lab.	1	3	2½	Ee 18	Elec. Lab.	1 3 2½
Me 21	Mats. of Eng.	2	0	2	Mn 54	Mechanics	3 0 3
Mn 53	Mechanics	3	0	3			

Senior Year

<i>Subject</i>		<i>Hours</i>		<i>Subject</i>		<i>Hours</i>	
		Rec.	Lab. or Comp.			Rec.	Lab. or Comp.
Ba 51	Corporation Fin.	3	0	3	Ce 52	Theory & Des. of	
Eh 9	Mod. Lit.	2	0	2		Steel Struc.	5 0 5
Me 33	Heat Eng.	3	0	3	Eh 6	Tech. Comp.	2 0 2
Me 37	Mech. Lab.	0	3	1½	Me 34	Heat Eng.	3 0 3
	Electives			8½	Me 38	Mech. Lab.	0 3 1½
						Electives	6½

Mechanical Engineering Curriculum

The field of mechanical engineering embraces all work involving the design, construction, or installation of machinery, either for manufacturing, transportation, or power generation; the design, manufacture, and installation of heating and air-conditioning or refrigerating equipment; the superintendence or management of factories, power plants, and motive power; the equipment of railways, and similar work.

The Mechanical Engineering curriculum is arranged to equip men as well as possible in four years' time to enter any of these lines of work.

It is not possible to develop the student into an expert engineer in any branch of the profession. It is also not possible, in general, to foresee what will be his ultimate occupation. Accordingly, those subjects which are fundamental to all engineering work and which may best be learned in college are most emphasized in the required courses, while those subjects which

are best acquired in practical work are left for the engineer graduate to obtain in actual practice. An endeavor is made, however, to give the more advanced technical courses such a trend as to make the period of adjustment of the graduate to practical engineering conditions short, and his acquirement of the knowledge necessary for advancement rapid.

The theoretical work is taught by lectures and recitations. The texts are carefully chosen and are supplemented, where necessary to illustrate more recent practice, by explanation and examples given by the instructor. Numerous problems are assigned for work outside the classroom to make sure the student can apply the principles learned.

Laboratory courses illustrate the application of theory and subject matter learned in the recitation work, and also teach methods of construction, operation, and testing of apparatus by direct contact with it. In the drawing rooms, applications of theories to work in design are taught, together with methods and requirements for the production of neat and accurate engineering drawings.

Thorough instruction is given in the theory and operation of both direct and alternating current electrical machinery, with ample practice in the electrical laboratory. Lectures by practical engineers and trips of inspection to engineering works help to bring before the student the conditions existing in practice.

Freshman Year

Common to all engineering courses and Chemistry. See page 257.

Sophomore Year

FALL SEMESTER

SPRING SEMESTER

<i>Subject</i>	<i>Hours</i>			<i>Subject</i>	<i>Hours</i>		
	Rec.	Lab. or Comp.	Cr.		Rec.	Lab. or Comp.	Cr.
Es 1b Prin. of Econ.....	2	0	2	Es 2b Prin. of Econ.....	2	0	2
Md 3 Des. Geometry....	0	6	2	Md 4 Adv. Mach. Drafting	0	6	2
Me 1 Materials Lab....	0	6	2	Me 2 Pattern Work....	0	6	2
Me 21 Materials of Eng....	2	0	2	Me 22 Els. Mech. Eng....	2	3	3½
Ms 7 Diff. Calculus.....	5	0	5	Ms 8 Int. Calculus.....	5	0	5
Mt 3 Military	2	1	2	Mt 4 Military	2	1	2
Pb 1 Public Speaking....	2	0	2	Pb 4 Debate or option	2	0	2
Ps 21 Mech. & Heat Lab.	0	4	2	Pt 4 Phy. Education...	0	2	0
Pt 3 Phy. Education....	0	2	0				

Junior Year

FALL SEMESTER

SPRING SEMESTER

<i>Subject</i>	<i>Hours</i>			<i>Subject</i>	<i>Hours</i>		
	Rec.	Lab. or Comp.	Cr.		Rec.	Lab. or Comp.	Cr.
Es 33 Labor Problems				Eh 6 Tech. Comp.	2	0	2
or Option	3	0	3	Me 8 Mach. Tool Lab.	0	6	2
Me 7 Mach. Tool Lab.	0	6	2	Me 24 Machine Design	2	3	3
Me 23 Kinematics	3	3	4	Me 34 Heat Eng.	3	0	3
Me 33 Heat Eng.	3	0	3	Me 38 Mech. Lab.	0	3	1½
Me 37 Mech. Lab.	0	3	1½	Me 46 Heat Power	3	0	3
Mn 51 Mechanics	5	0	5	Mn 52 Mechanics	5	0	5

Senior Year

<i>Subject</i>	<i>Hours</i>			<i>Subject</i>	<i>Hours</i>		
	Rec.	Lab. or Comp.	Cr.		Rec.	Lab. or Comp.	Cr.
Ce 35 Hydraulics	2	0	2	Ee 36 Alt. Currents	2	0	2
Ee 35 D. C. Machy.	2	0	2	Ee 38 Elec. Lab.	0	3	1½
Me 71 Mech. Lab.	0	3	1½	Me 50 Thesis	Arr		3
Me 81 Heat Eng.	2	3	3	(or Option)			
Me 87 Machine Design	0	6	2	Me 72 Mech. Lab.	0	3	1½
Me 91 Heat. & Air				Me 84 Ind. Management	2	0	2
Conditioning	3	0	3	Me 86 Power Plants	3	0	3
Me 93 Gas Engines	3	0	3	Me 88 Dynamics of			
Py 3 App. Psychol.	3	0	3	Machines	2	0	2
(or Option)				Option			
				Me 96 Seminar	1	0	1

Departments of Instruction

Courses designated by an odd number are given in the fall semester, those designated by an even number, in the spring semester.

A course given in the first semester and duplicated in the second semester is designated by two numbers, the second of which is in parenthesis.

Two-semester courses which may be taken either semester are designated with a period between the two numbers (e.g., 1. 2); if the first semester must be taken before the second can be taken, a semicolon is used (e.g., 1; 2); if both semesters must be taken to obtain credit, a dash is used (e.g., 1-2).

Courses numbered 1-50 are for undergraduates only; courses numbered 51-100 are primarily for upperclassmen and graduates; courses numbered above 100 are primarily for graduates.

CHEMISTRY AND CHEMICAL ENGINEERING

PROFESSORS BRADT, BRANN, BRAUTLECHT, AND BRAY; ASSOCIATE PROFESSORS JENNESS, OTTO, AND NOLAN; ASSISTANT PROFESSOR CAULFIELD;
MR. BOGAN; MR. TOMLIN; MR. MARTIN

Courses in Chemistry

1; 2. General Chemistry.—This course deals with the general principles of the science and the elements of qualitative analysis. Classroom (lectures, discussion, and demonstrations), *two hours a week*; laboratory, including recitations, *four hours a week*. One breakage card. *Four credit hours*.
MR. TOMLIN, MR. MARTIN

5. Inorganic Chemistry.—For Home Economics students only. More of the laboratory time is devoted to drill on inorganic principles than in Course 1, 2. Classroom, *two hours a week*; laboratory, *four hours a week*. One breakage card. *Four credit hours*.
MR. BOGAN

6. Descriptive Chemistry.—A non-professional course having as its objective a survey of the relationships of chemical science to present-day civilization. Students are expected to do extensive reading. This course is designed for Arts and Science students who will not continue in the field of chemistry. It is not acceptable as a prerequisite for any chemistry course. Lectures, *three hours a week* except that on alternate weeks one lecture is

replaced by three hours of laboratory. One breakage card. *Three credit hours.* MR. BOGAN

22. Introductory Theoretical Chemistry.—This is an introductory course in the fundamental principles of chemistry designed to prepare students for physical chemistry. It is recommended to majors in Chemistry and Chemical Engineering as well as other students desiring a second-year elective in the Department of Chemistry. Prerequisite, Course 1, 2. Classroom, *three hours a week. Three credit hours.* MR. JENNESS

32. Micro-Qualitative Analysis.—Systematic theoretical and laboratory study of the fundamental principle of analysis as applied to the common cations and anions. Analysis of unknowns. Microtechnique without use of the microscope. Prerequisite, Course 1, 2. (Chemical Engineering students may take this course under the heading of 32a with *three hours laboratory for three credit hours.*) Lectures and recitations, *two hours a week*; laboratory, *eight hours a week.* Two breakage cards. *Five credit hours.* MR. OTTO

41. Quantitative Analysis.—An introductory course illustrating the fundamental principles of gravimetric, volumetric, and electrolysis methods. Prerequisite, Course 2. (Engineering Physics students may take this course under the heading of 41a, with *one recitation and six hours of laboratory for three credit hours.*) Classroom, *one hour a week*; laboratory, *eight hours a week.* Two breakage cards. *Four credit hours.* MR. OTTO

46. Sanitary Chemistry.—For Civil Engineering students taking the Sanitary Engineering option, and other qualified students, This course is offered in alternate years. Given in 1939-40. (*Two credit hours only for Chemistry majors.*) Fundamental topics of water purification and waste disposal. Prerequisite, Course 1, 2. Lectures and recitations, *two hours a week*; laboratory, *three hours a week.* One breakage card. *Three credit hours.* MR. BOGAN

48. Mineralogy and Crystallography.—This course is offered in alternate years. Given in 1939-40. Prerequisite, Chemistry 32. Classroom, *one hour a week*; laboratory, *four hours a week.* One breakage card. *Three credit hours.* MR. TREFETHEN

49. 50. Undergraduate Thesis.—The thesis will embody the result of the study of a special chemical problem in the laboratory. It will partake of the nature of original investigation. Open only to seniors. *Hours arranged. One to three credit hours.* THE CHEMICAL STAFF

51; 52. Organic Chemistry.—An introductory course dealing with aliphatic and aromatic compounds. Prerequisite, Course 32 or at least C

grades in Courses 1, 2. Suitable for graduate credit only as a minor subject. (Engineering Physics students may take the fall semester course under the heading of 51a without laboratory for *three credit hours*.) Classroom, *three hours a week*; laboratory, *four hours a week*. Two breakage cards. *Five credit hours*. MR. BRAUTLECHT

54. Advanced Inorganic Chemistry.—Advanced theoretical and descriptive inorganic chemistry emphasizing periodic relationships. Prerequisite, Chemistry 71. Given in 1939-40 and alternate years. Lectures and recitations, *two hours a week*. *Two credit hours*. MR. BOGAN

55. Contemporary Chemistry.—A study of the contemporary personalities and contributions in the field of chemistry. Prerequisite, Courses 52 and 72. Lecture, *one hour a week*. *One credit hour*. MR. BRANN

56. Structure of Matter.—Recent developments in the field of atomic and molecular structure; isotopes; radioactivity; etc. Prerequisite, Course 71. Given in 1940-41 and alternate years. Not given in 1939-40. Lectures and recitations, *two hours a week*. *Two credit hours*. MR. BRANN

57 (58). Principles of Metallography.—The microstructure of ferrous and non-ferrous metals and alloys with emphasis on the principles of equilibrium and physical chemistry as related to their properties. Open only to exceptional students. Prerequisite, Course 72. Lectures and recitations, *two hours a week*. *Two credit hours*. MR. BRADT

61. Technical Analysis.—The analysis of certain technical products of particular interest to chemical engineers. Prerequisite, Course 41. Suitable for graduate credit only as a minor subject. Classroom, *one hour a week*; laboratory, *eight hours a week*. Two breakage cards. *Four credit hours*. MR. BOGAN

63. Intermediate Quantitative Analysis.—A continuation of Course 41, taking up some of the more difficult volumetric and gravimetric methods. Designed particularly for chemists. Prerequisite, Course 41. Suitable for graduate credit only as a minor subject. Classroom, *one hour a week*; laboratory, *eight hours a week*. Two breakage cards. *Four credit hours*. MR. BOGAN

71; 72. Physical Chemistry.—This is a course in the detailed study of fundamental principles of chemistry and the application of them to various fields. Lecture, recitations, and laboratory. Prerequisites, Course 41 and Physics 1b, 2b. Calculus is very desirable. Suitable for graduate credit only as a minor subject. (Engineering Physics students may take the spring semester course under the heading of 72a without laboratory for *three credit*

hours.) Classroom, *three hours a week*; laboratory, *four hours a week*. One breakage card. *Five credit hours*. MR. BRANN, MR. MARTIN

73; 74. Chemical Microscopy.—The technique of handling and analyzing samples of very small size. Chemical and physical changes, crystalline form, density and refractive index observed under the microscope. Unknowns, permanent slides, microphotographs, microm measurements, etc. Open only to exceptional students. Prerequisite, Course 41. Laboratory (including recitations), *six hours a week*. One breakage card. *Two credit hours*. MR. OTTO

84. Metallurgy.—A descriptive course dealing with ferrous and non-ferrous metals and alloys. Prerequisite, Course 71, 72. Classroom, *three hours a week*. *Three credit hours*. MR. MARTIN

86. Journal Seminar.—A study of chemical literature and chemical methods. Prerequisite, Course 52 and senior standing. Classroom, *two hours a week*. *Two credit hours*. MR. BRADT

89. Organic Preparations.—The preparation of a number of organic compounds. Objective of the course is the utilization of varying types of techniques and procedures as illustrated by a selected group of organic preparations. Prerequisite, Course 51 and 52. Suitable for graduate credit only as a minor subject. Laboratory, *six hours a week*. *Two credit hours*. MR. BRADT

90. Organic Analysis.—Identification of pure organic compounds and the technique of preparing derivatives and manipulating small quantities of substances. Courses 41, 51, and 52 are prerequisites. Laboratory, *four hours a week*. *Two credit hours*. MR. BRADT

91. 92. Intermediate Organic Chemistry.—A course involving the general and also special topics of organic chemistry. Prerequisite, Course 51, 52. Recitation, *three hours a week*. *Three credit hours*. MR. BRADT

95. Thermodynamics.—A brief study of the laws of thermodynamics as applied to chemical problems. Prerequisite, Course 71, 72. Classroom, *three hours a week*. *Three credit hours*. MR. BRANN

96. Electrochemistry.—A brief review of the theory followed by a study of the more important industrial applications. Prerequisite, Course 71, 72. Classroom, *three hours a week*. *Three credit hours*. MR. BRANN

97. 98. Methods of Teaching Chemistry.—A course for prospective teachers of chemistry, which includes administration, supervision, costs; laboratory arrangement, equipment, maintenance and supplies; preparation of solutions, demonstrations, lesson plans, testing programs; texts, laboratory

manuals; grading and scoring; bibliography. Text, problems, and journal assignments. For juniors, seniors, and graduate students. Prerequisite, Course 1, 2, or the equivalent. Classroom, *two hours a week*. *Two credit hours*.
MR. BRAUTLECHT

101. 102. Investigations in Organic Chemistry.—Time and credit, arranged.
THE CHEMISTRY STAFF

103. 104. Investigations in Physical Chemistry.—Time and credit, arranged.
THE CHEMISTRY STAFF

105. 106. Investigations in Analytical Chemistry.—Time and credit, arranged.
THE CHEMISTRY STAFF

107. 108. Investigations in Inorganic Chemistry.—Time and credit, arranged.
THE CHEMISTRY STAFF

125. Graduate Thesis.—Credit, arranged. THE CHEMISTRY STAFF

151. 152. Advanced Organic Chemistry.—A course involving advanced study of special topics in organic chemistry including electro-organic, organic plastics, theories of valence, dyes, and the applications of physical chemistry to organic. Prerequisite, Course 91, 92 or a B grade in Chemistry 51, 52. Lectures and recitations, *two hours a week*. *Two credit hours*.
MR. BRADT

173. Advanced Physical Chemistry.—A course in advanced physical chemistry dealing with colloidal systems. Prerequisite, Course 71, 72. Given in 1940-41 and alternate years. Classroom, *two hours a week*; laboratory, *three hours a week*. One breakage card. *Three credit hours*. MR. MARTIN

194. Electrochemistry.—A laboratory course involving experimental work in the field of electro-organic and inorganic syntheses, electroplating, electrorefining, electro-thermo syntheses, and electrochemical measurements. Prerequisite, Course 71, 72. Given in 1940-41 and alternate years. Laboratory, *six hours a week*. Two breakage cards. *Two credit hours*.
MR. BRADT

Courses in Chemical Engineering

33. Elementary Stoichiometry.—This course includes the application of chemical analyses to material and energy balances as applied to various operations or pieces of equipment, such as the combustion of fuels, crystallization, a rotary kiln, a sulfur burner, etc. Prerequisites, Chemistry 1, 2. Lecture and recitation, *three hours a week*. *Three credit hours*. MR. NOLAN

49. 50. Thesis.—The thesis will embody the result of the study of a special chemical engineering problem in the laboratory. It will partake of the nature of original investigation. Open only to seniors. Hours arranged. *One to three credit hours.* THE CHEMICAL ENGINEERING STAFF

75; 76. Elements of Chemical Engineering.—A study of the application of unit operations to engineering practice, such as heat transfer, evaporation, and distillation. Prerequisites, Course 33 and simultaneous enrollment in Chemistry 71. Classroom, *three hours a week. Three credit hours.* MR. CAULFIELD

77. Inorganic Technology.—This is a partially descriptive course with considerable emphasis on the quantitative application of principles of unit operations and physical chemistry to such processes as the sulfuric, nitric, caustic, fertilizer, starch, and paper industries. Prerequisites, Course 76 and Chemistry 72. Lecture and recitation, *three hours a week. Three credit hours.* MR. NOLAN

78. Organic Technology.—This course is similar to Course 77 except that more emphasis is placed on processes common to several organic industries, such as nitration, sulfonation, saponification, hydrogenation, etc. Prerequisites, Course 76, Chemistry 52 and 72. Lecture and recitation, *three hours a week. Three credit hours.* MR. BRAUTLECHT

81. 82. Chemical Engineering Laboratory.—The practice in unit operations and processes, particularly those emphasized in Courses 75, 76. Formal reports are an essential part. Prerequisites, Course 33 and Chemistry 71. Classroom, *one hour a week; laboratory, four hours a week.* Two breakage cards. *Three credit hours.* MR. JENNESS

84. Unit Processes.—This course includes the quantitative application of unit operations as actually used in process work, such as the drying of paper on a paper machine, the absorption of sulfur dioxide in a limestone tower, and heat and material transfer in a digester. Most of the equipment utilized is special equipment available in the Pulp and Paper division. Prerequisite, Course 81. Classroom, *one hour a week; laboratory, four hours a week.* One breakage card. *Three credit hours.* MR. CAULFIELD AND STAFF

87. Chemical Engineering Practice.—The course consists of group investigations of the operation of equipment in neighboring industrial plants. The major portion of time is spent at the plant, with additional literature and experimental work at the University. The course is open only to Chemical Engineering students in the senior and graduate years. *Time arranged.* One breakage card. *One to three credit hours.* MR. NOLAN

88. Chemical Engineering Practice.—This course is similar to Course 87 except that problems investigated will be more of a research nature involving some design and economic investigation. Prerequisite, B grade in Course 87. Laboratory, *nine hours a week*. One breakage card. *Three credit hours*.
MR. NOLAN

109. 110. Investigations and Thesis in Chemical Engineering.—Open only to graduate students. *Time and credit, arranged*.

THE CHEMICAL ENGINEERING STAFF

125. Graduate Thesis.—*Credit, arranged*.

THE CHEMICAL ENGINEERING STAFF

175. Chemical Engineering Economic Balance.—This course includes the application of economics to chemical engineering unit operations, in so far as it determines the optimum size and nature of process equipment. For instance, the most economic surface area of a heat interchanger for heating feed water with exhaust furnace gas is controlled by first cost, power costs, desired terminal temperatures, etc. Prerequisite, Course 82. Classroom, *three hours a week*. *Three credit hours*.

THE CHEMICAL ENGINEERING STAFF

176. Chemical Engineering Plant Design.—At the start of this course each student will be assigned some chemical engineering process for which he will be required to design a plant. This will include selection of equipment, plant layout, and cost analysis. Prerequisite, Course 175. Classroom, *three hours a week*. *Three credit hours*.

THE CHEMICAL ENGINEERING STAFF

Courses in Pulp and Paper Technology

PROFESSOR BRAY; ASSISTANT PROFESSOR CAULFIELD

49. 50. Thesis.—The thesis will embody the result of the study of a special problem in the laboratory. It will partake of the nature of original investigations. Hours arranged. *One to three credit hours*.

MR. CAULFIELD AND STAFF

65. Pulp Technology.—A lecture course on the manufacture of the various kinds of wood pulps and the chemistry involved in present-day pulp making. Prerequisites, Chemistry 1, 2, 32, and 41. Classroom, *three hours a week*. *Three credit hours*.

MR. BRAY

66. Paper Technology.—A lecture course on the processes of manufacturing paper. Prerequisite, Course 65. Classroom, *three hours a week*. *Three credit hours*.

MR. BRAY

67. Pulp Manufacture.—Laboratory work. Unit-process work on semi-commercial scale production of various kinds of wood pulps, analysis of pulp-making raw materials, etc. Prerequisites, Chemistry 1, 2, 32, 41, and Pulp and Paper 65. Laboratory, *eight hours a week for first nine weeks*. One breakage card required. *Two credit hours*. MR. BRAY, MR. CAULFIELD

68. Paper Manufacture.—A laboratory course, unit process work, in which papers of various kinds are made on semi-commercial equipment including Jordan and cylinder paper machine. Prerequisite, Course, 66. Laboratory, *four hours a week*. One breakage card required. *Two credit hours*. MR. BRAY

82. Pulp Coloring and Bleaching.—A laboratory course involving an examination and application of the various classes of dye stuffs, and the methods of bleaching various kinds of pulps. Prerequisites, Courses 65 and 66. Laboratory, *four hours a week*. One breakage card required. *Two credit hours*. MR. BRAY

83. Chemical Engineering of Pulp and Paper Manufacture.—Application of the theory of the unit operations of chemical engineering to the processes of pulp and paper manufacture, that is, transfer of fluids, heat and material balances, absorption, drying, recovery of chemicals, etc. Prerequisites, Chemistry 72 and Chemical Engineering 76. Recitation and lecture, *three hours a week*. *Three credit hours*. MR. CAULFIELD

(85); 86. Cellulose.—A laboratory course dealing with the characteristics and derivatives of various kinds of pulps (cellulose). Prerequisite, Chemistry 1, 2, 32, 41, and Pulp and Paper 65. Laboratory, *four hours a week*. One breakage card required. *Two credit hours*. MR. BRAY

87. Paper Testing and Analysis.—A laboratory course involving physical, microscopical, and chemical testing of various kinds of papers. Prerequisites, Chemistry 32, 41 and Pulp and Paper 65 and 66. Laboratory, *four hours a week*. One breakage card required. *Two credit hours*. MR. BRAY

88 (89). Pulp and Paper Practice.—The course consists of group investigations of the operation of equipment in neighboring industrial plants. The course is open to qualified Pulp and Paper students in the senior or graduate year. (This is the same course as ChE 87 and 88.) *Time arranged*. *One to three credit hours*. MR. NOLAN

105. 106. Investigations in Pulp and Paper Technology.

MR. CAULFIELD AND STAFF

125. Graduate Thesis.—Credit, arranged.

MR. CAULFIELD AND STAFF

Summer Mill Practice

40s. Summer Mill Practice.—A summer course of six weeks in paper-mill work is offered, through the courtesy of the International Paper Company, which will coördinate the work of the various departments of the mill. The course is open only to students who have completed the sophomore year in Chemical Engineering, Pulp and Paper Division, and is required of them at that time. Prerequisite, Chemistry 32, 41 and Chemical Engineering 33. *Time and credit, arranged.* MILL STAFF AND MR. BRAY

Equipment obtained and receipted for by a student and not returnable at the end of a course, as well as a few non-returnable supplies and a few special chemicals, will be charged to the student at cost. The supply room will be open during all laboratory periods. Breakage cards may be obtained only at the Treasurer's office, and all students taking laboratory courses are required to have one. The unused balance is redeemable at the Treasurer's office, after obtaining clearance at the chemistry storeroom.

For Chemistry, Chemical Engineering, and Pulp and Paper Technology courses in the Summer Session, see the Summer Session Bulletin.

For courses in biochemistry, see the description of courses given by the Department of Bacteriology and Biochemistry.

For requirements leading to the degree of Bachelor of Arts in Chemistry, see section devoted to the College of Arts and Sciences.

CIVIL ENGINEERING

PROFESSORS EVANS, SPRAGUE, AND LEAVITT; ASSOCIATE PROFESSOR LYON;
ASSISTANT PROFESSORS STEPHENSON AND TREFETHEN;
MR. BENNETT

1. Plane Surveying.—Recitations and lectures covering the general theory of plane surveying and plotting. A study of surveying instruments, their adjustments and use, followed by a study of the methods commonly used for surveying and plotting. Classroom, *two hours a week. Two credit hours.* MR. STEPHENSON

2. Plane Surveying.—Recitations and lectures covering surveying instruments and their use, followed by a discussion of the various methods commonly used for Plane Surveying. Prerequisite, Mathematics 1. Classroom, *two hours a week for twelve weeks; field work, three hours a week and classroom, one hour a week for six weeks. Two credit hours.*

MR. STEPHENSON

3. Field Work and Plotting.—This course consists of practice in the use of the tape, compass, transit, and level, followed by practice in the common methods of map drawing. Field and drawing room, *nine hours a week*. *Three credit hours*. MR. STEPHENSON, MR. LYON

4. Surveying.—The historical background of surveying, the legal principles involved when surveys and resurveys are made, and the common methods employed will be emphasized. Not open to students who have had other surveying courses. Classroom, *two hours a week*; field and office, *three hours a week*. *Three credit hours*. MR. STEPHENSON

6. Land Surveying.—This course is designed to familiarize the student with the methods employed by the General Land Office for laying out public lands and with such other methods as may have been used by the various states. Prerequisites, Courses 1 and 3. Classroom, *two hours a week*; field work, *nine hours a week during the last six weeks*. *Three credit hours*. MR. STEPHENSON

8. Construction Surveying.—A course covering the various problems which the man surveying for various types of construction encounters. The legal aspect of surveying, methods employed, and the necessary computations are studied. Prerequisites, Courses 1 and 3. Classroom, *two hours a week during first twelve weeks*; field work, *six hours a week during the last six weeks*. *Two credit hours*. MR. LYON

10. Curves and Earthwork.—A course of recitations and lectures investigating the geometry of simple, compound, and reverse circular curves, transition curves, vertical curves, and earthwork. Prerequisites, Courses 1 and 3. Classroom, *three hours a week*. *Three credit hours*. MR. LYON

12. Economic Geography.—Deals with the principles of geography, especially applied to the common economic products, treating their distribution, characteristics, and uses. Given in 1939-40 and alternate years. Classroom, *three hours a week*. *Three credit hours*. MR. TREFETHEN

13. Physical Geology.—Introduction to general dynamical geology; it covers the materials, agents, and processes of geology. Classroom, *three hours a week*. *Three credit hours*. MR. TREFETHEN

14. Introduction to Regional Geography.—A survey course designed to give a general understanding of the natural and cultural aspects of the major geographic regions of the world. To be given in 1940-41 and alternate years. Classroom, *three hours a week*. *Three credit hours*. MR. TREFETHEN

16. Geology.—Introduction to geological materials, agents, and processes of particular interest to the engineer. Classroom, *two hours a week*;

laboratory, *three hours a week during last half semester. Two and one-half credit hours.* MR. TREFETHEN

17. Economic Geology.—Introduction to ore deposits; their characteristics, distribution, production, and uses of both metals and non-metals. Classroom, *two hours a week. Two credit hours.* MR. TREFETHEN

18. Historical Geology.—A review of the earth's history; its past land distribution, mountain revolutions, rock formations, climates and living forms. Classroom, *three hours a week. Three credit hours.* MR. TREFETHEN

19. Advanced General Geology.—A study of the common rocks and minerals and geologic processes. Designed for students who are considering further work in geology and students who expect to teach science in the high schools. Prerequisite, Course 13 or Course 16. Classroom, *two hours a week; laboratory, two hours a week. Three credit hours.* MR. TREFETHEN

20. Structural and Highway Materials.—Laboratory and recitations covering the methods of testing, characteristics of, and specifications for the materials commonly used for structural and highway purposes. Classroom, *one hour a week; laboratory, four hours a week. Three credit hours.* MR. LEAVITT, MR. SPRAGUE, MR. STEPHENSON

25. Engineering Geology.—Characteristics of building stones and other earth features with which the civil engineer deals. Prerequisite, Course 16. Classroom, *two hours a week; laboratory, three hours a week during first half semester. Two and one-half credit hours.* MR. TREFETHEN

26. Hydraulics.—Fundamental data; hydrostatics; theoretical hydraulics; instruments and observations; theoretical and actual flow through orifices, weirs, tubes, pipes, and conduits; dynamic pressure of water. Prerequisite, Mechanics 51. Classroom, *three hours a week. Three credit hours.* MR. LYON

27. Soil Testing.—A laboratory course in soil testing as applied to soil mechanics. The principles of the tests and interpretation of test results are explained and discussed in the classroom. Prerequisite, Mechanics 51. Recitation, *one hour a week; laboratory, three hours a week. Two credit hours.* MR. BENNETT

29. Highway Construction.—The construction and maintenance of city pavements and country roads under various conditions of traffic, climate, soil, etc. Prerequisites, Courses 1 and 10. Recitation, *two hours a week. Two credit hours.* MR. LEAVITT

33. Sanitary Engineering and Water Supply.—An introductory course outlining the engineering problems which are involved in designing and operating municipal water supply, and sewage disposal systems. Classroom, *two hours a week*; laboratory, *three hours a week*. *Three credit hours*.

MR. SPRAGUE

35. Hydraulics.—A short course which includes the main principles given in Course 26. Given to students in the Departments of Mechanical and Electrical Engineering. Prerequisite, Mechanics 51. Classroom, *two hours a week*. *Two credit hours*.

MR. LYON

49. 50. Thesis Work.—The study of and report upon some original investigation or design. See regulations regarding degrees. *Time to be arranged*. *Two or three credit hours*.

MR. EVANS AND STAFF

51. Hydraulic Engineering, Office Work.—From notes previously taken in the field, rating curves and vertical velocity curves are plotted and studied and discharge measurements are computed; also problems in hydrology, water storage, and water power are studied. Prerequisites, Courses 26 and 51s. Course 55 must be concurrent. Drawing room, *four hours a week*. *Two credit hours*.

MR. LYON

52. Theory and Design of Steel Structures.—This course involves the determination of stresses and strain in beams, girders, and trusses under the usual systems of loading. Students are required to make a complete design of several types of structures. Prerequisite, Mechanics 51. *Five hours a week*. *Five credit hours*.

MR. EVANS

53. Hydraulic Engineering, Office Work.—A course similar to but shorter than Course 51. Prerequisites, Courses 26 and 31s. Drawing room, *two hours a week*. *One credit hour*.

MR. LYON

55. Hydrology.—A study of stream-flow as applied to water-power development; rainfall; evaporation; run-off; methods of obtaining data with a study of their use. Prerequisite, Course 26. Classroom, *two hours a week*. *Two credit hours*.

MR. LYON

56. Hydraulic Engineering.—A continuation of Courses 51 and 55. The development and utilization of water power; the modern turbine; inspection of hydro-electric plants. Drawing room, *four hours a week*. *Two credit hours*.

MR. LYON

57. Concrete Structures and Foundations.—This course covers the design and construction of plain and reinforced concrete structures with due consideration for preparing the foundation to receive such structures. Prerequisite, Mechanics 51. *Five hours a week*. *Five credit hours*. MR. EVANS

59. Drafting.—This course consists of detailing the structures designed in Course 52. Drawing room, *nine hours a week. Three credit hours.*

MR. SPRAGUE

60. Drafting.—The structures designed in Course 52 are detailed in this course. *Six hours a week. Two credit hours.*

MR. SPRAGUE

61. Foundations.—Recitations, lectures, problems, and outside readings dealing with ordinary and special foundation problems. Classroom, *two hours a week. Two credit hours.*

MR. BENNETT

62. Soil Mechanics.—A study of the fundamental principles underlying Soil Mechanics with application to practical foundation problems. Prerequisite, Mechanics 51 or 53, also Course 27. Classroom, *three hours a week. Three credit hours.*

MR. BENNETT

63. Highway Economics.—State highway and municipal highway management as they affect organization, administration, and finance of streets and highways; economic factors of highway location, design and operation; traffic and operation expenses. Prerequisites, Courses 29 and 11s. *Three hours a week. Three credit hours.*

MR. LEAVITT

65. Advanced Soil Testing.—An advanced laboratory course in soil mechanics dealing with the structural properties of soils as applied to the design of foundations, earth dams, highways and soil stabilization. Prerequisites, Course Ce 20, also Mn 51 and 52. Laboratory, *nine hours a week. Three credit hours.*

MR. BENNETT

68. Highway Design.—Drawing room study of highway location and relocation, including plans of proposed improvement and construction of about two miles of highway with detailed estimates and specifications for the same. Also design of street intersections. Prerequisite, Course 63. Drawing room, *four hours a week. Two credit hours.*

MR. LEAVITT

71. Sanitary Engineering.—The theory of design of water-treatment plants and sewage disposal works which was studied in previous courses is applied to practical municipal problems. Prerequisite, Course 33. Classroom, *two hours a week. Two credit hours.*

MR. SPRAGUE

72. Highway Engineering.—An advanced course of lectures and recitations on various highway problems; general survey of higher types of pavements; city planning; specifications; cost keeping; maintenance and repair work as discussed in engineering periodicals. Prerequisite, Course 63. Classroom, *two hours a week. Two credit hours.*

MR. LEAVITT

74. Sanitary Engineering.—Lectures and recitations dealing with municipal and rural sanitation. Sanitation of milk and other foods; control

quired concurrently. Classroom, *two hours a week*; laboratory, *three hours a week*. *Three credit hours*. MR. CRABTREE

15; 16. Electric Circuits and Machinery.—Fundamental theory of sinusoidal alternating currents, including representation by vectors and solutions by trigonometric and algebraic methods. Underlying principles and circuit problems common to all types of electrical apparatus; design and performance of direct-current machinery. Theory of polyphase alternating-current systems, non-sinusoidal wave forms, and electrical transmission. Introduction to the analysis of transient phenomena. Lectures, recitations, and problems. Prerequisite, Course 2. Fall semester: classroom, *three hours a week*. *Three credit hours*. Spring semester: classroom, *three hours a week*; computation, *three hours a week*. *Four credit hours*. MR. HILL

17; 18. Electrical Laboratory.—Electrical measurements; operation and testing of direct-current generators and motors. Introductory experiments of alternating-current circuits and machines. Application of the work of Courses 1, 2, 15, and 16. Prerequisite, Course 2; Courses 15 and 16 are concurrent. Classroom, *one hour a week*; laboratory, *three hours a week*. *Two and one-half credit hours*. MR. ROBERTS, MR. CRABTREE

22. Telephone Communication.—Characteristics of speech; the hearing mechanism; mechanical and electrical characteristics of telephone apparatus; the subscriber's set; common battery and local battery circuits; dial systems; repeaters; traffic studies. Lectures and recitations. Prerequisite, Course 15. Course 24 is required concurrently. Classroom, *two hours a week*; seminar, *two hours a week*. *Three credit hours*. MR. CREAMER

24. Telephone Laboratory.—Microphonic efficiency of telephone apparatus; measurements of articulation and audition; local and common battery systems; phantom and composite circuits; repeaters; transmission testing. Course 22 is required concurrently. Laboratory, *three hours a week*. *One and one-half credit hours*. MR. BLISS

30 (35). Direct Current Machinery.—Electrical principles and applications; the production, distribution, and utilization of power from the standpoint of the civil, mechanical, and chemical engineer. Recitations and problems. Classroom, *two hours a week*. *Two credit hours*. MR. CRABTREE, MR. BLISS

31 (36). Alternating Currents.—Alternating current measurements and calculations; operation of generators and motors. Lectures, recitations, and problems. Prerequisite, Course 30 or 35. Classroom, *two hours a week*. *Two credit hours*. MR. ROBERTS, MR. CRABTREE, MR. BLISS

33 (38). Electrical Laboratory.—This course is based on Courses 30, 31, 35, and 36. Operations of direct-current and alternating-current generators and motors; electrical power measurements. Prerequisite, Course 30 or 35; Course 31 or 36 concurrent. Laboratory, *three hours a week. One and one-half credit hours.* MR. ROBERTS, MR. CRABTREE, MR. BLISS

49. 50. Thesis Work.—The study of and report upon some original investigation or design. *Time to be arranged.* See regulations regarding degrees. *One to three credit hours.* MR. CLOKE, MR. HILL, MR. CREAMER

Inspection Trip.—About a week's trip visiting some of the electrical and industrial plants of New England. MR. CREAMER

51. Alternating Current Apparatus.—Continuation of Course 16. Theory, construction, and operating characteristics of alternating-current apparatus and machinery. Polyphase apparatus; generation, distribution, and utilization of polyphase power. Lectures, recitations, and problems. Prerequisite, Course 16. Classroom, *three hours a week*; computation, *four hours a week. Five credit hours.* MR. BARROWS

56. Electrical Power Plants.—Electrical equipment of power plants, methods of control, switching, protection, lightning arresters; arrangement of station and substation machinery, apparatus, and switchboards. Lectures and recitations. Prerequisites, Courses 15, 16, and 51. Classroom, *three hours a week. Three credit hours.* MR. BARROWS

58. Electrical Power Transmission.—Theory, design, and calculation of power-transmission systems. Problems of inductive interference, insulation, protection, stability, and control. Lectures, recitations, and problems. Prerequisites, Courses 16 and 51. Classroom, *two hours a week*; supervised computation, *three hours a week. Three credit hours.* MR. HILL

60. Advanced Electrical Machinery.—Analysis of windings and magnetic circuits of electric power apparatus. Advanced problems on flux distribution, commutation, heat paths, air flow, and mechanical stresses. Design of alternating-current machinery. Predetermination of performance characteristics. Lectures and problems. Prerequisite, Course 51. Classroom, *three hours a week. Three credit hours.* MR. HILL

61 (62). Illuminating Engineering.—Different types of lamps; light, photometry, illumination calculations, and problems of interior and exterior illumination. Lectures, recitations, and problems. Classroom, *three hours a week. Three credit hours.* MR. BARROWS

63. Electrical Transportation.—Mechanics of vehicle movement; estimates of power and energy requirements of trains and other transporta-

tion units. Engineering and economic principles governing the selection and design of electrical equipment for railways, buses, elevators, and ships. Lectures, recitations, and problems. Prerequisite, Course 15, 16. Course 51 is concurrent. Classroom, *three hours a week. Three credit hours.*

MR. HILL

75; 76. Electrical Laboratory.—Alternating-current instruments and measurements; experimental work on single-phase circuits, and polyphase systems. Operation and testing of alternating-current generators, motors, transformers, and converters. Prerequisites, Courses 15, 16, 17, and 18; Course 51 is concurrent. Classroom, *one hour a week; laboratory, three hours a week. Two and one-half credit hours.*

MR. ROBERTS

81. Communication Engineering.—Network theory; equivalent circuits; filters; equalizers; carrier-current systems. Lectures and problems. Prerequisite, Course 22. Computation, *four hours a week. Two credit hours.*

MR. CRABTREE

83. Communication Laboratory.—Advanced measurements on communication apparatus; repeaters; carrier-current systems; audio-frequency amplifiers; filters; transformers; loud speakers and microphones. Prerequisite, Course 22. Course 81 is required concurrently. Laboratory, *three hours a week. One and one-half credit hours.*

MR. CREAMER

84. Telephone Transmission.—Application of hyperbolic functions to transmission line problems; transmission of speech over cable and open wire circuits; loaded lines; design of artificial lines. Lectures and problems. Prerequisite, Course 81. Computation, *four hours a week. Two credit hours.*

MR. CRABTREE

85; 86. Radio Engineering.—Detailed study of inductance coils, condensers, and resistors for radio frequencies; vacuum-tube theory; extended analysis of oscillatory circuits and methods of excitation; radiation and transmission phenomena; comparisons of methods of transmission and reception; theory of modulation; radio measurements. Lectures, recitations, and design problems. Prerequisite, Course 22. Fall semester: classroom, *two hours a week; computation, two hours a week. Three credit hours.* Spring semester: classroom, *two hours a week; seminar, two hours a week. Three credit hours.*

MR. CREAMER

87. Engineering Acoustics.—This course, which is closely correlated with Courses 81, 85, and 86, deals with studio and theater acoustics, and the dynamical systems of microphones, receivers, and loud speakers. Lectures, recitations, and problems. Prerequisite, Course 22. Classroom, *two hours a week. Two credit hours.*

MR. CREAMER

88. Radio Laboratory.—Use of wave-meters; radio-frequency amplifiers; tests of tube transmitters and receivers; continuous wave and radio-phone transmission at various frequencies; radio directionals; field strength measurements. Course 86 is required concurrently. Laboratory, *three hours a week. One and one-half credit hours.* MR. CREAMER

91; 92. Theory of Electricity.—A study of the more advanced mathematical and physical theories of electricity with reference to their engineering applications. Wave propagation, radiation, gaseous conduction, and the analysis of transient phenomena by the methods of Heaviside's operational calculus. Problems, conferences, and seminar. Either or both semesters. *Two credit hours.* MR. CLOKE, MR. HILL

156. Advanced Electrical Power Plants.—Study of the latest designs and methods of central station practice. Location, parallel operation, super-power practice, and economics. Lectures, studies, and problems. Prerequisites, Courses 51, 56, and 76. Classroom, *two hours a week. Two credit hours.* MR. BARROWS

157; 158. Advanced Electrical Power Transmission.—A detailed study of the advanced theory of electric power circuits in the normal steady state and under transient and unbalanced conditions. Analysis of the performance of transmission systems, distribution networks, and connected apparatus. Engineering and economic problems of design, construction, and operation. Lectures, analytical studies, and problems. Prerequisite, Course 58. Classroom, *two or three hours a week. Two or three credit hours.* MR. HILL

165; 166. Advanced Theory of Electrical Machinery.—Analytical study of electrical machinery with emphasis on methods useful in research and development. Analysis of behavior in transient states and under abnormal condition of operation. Lectures, problems, seminar papers, and reviews. Prerequisite, Course 60. Course 175 is concurrent. Classroom, *two or three hours a week. Two or three credit hours.* MR. HILL

175. Electrical Laboratory.—Advanced tests of electrical machines and circuits as related to design and development. Performance studies involving the use of the oscillograph. Prerequisites, Courses 51, 60, and 76. Course 165 is concurrent. Classroom, *one hour a week; laboratory, three hours a week. Two and one-half credit hours.* MR. BARROWS

185. Communication Networks.—Advanced study of passive networks, including filters and attenuation equalizers; transformer and transition losses; high-quality circuits used as an adjunct to radio broadcasting; advances in communication from study of current technical literature. Lec-

tures, reports, and problems. For graduate students who have specialized in electrical communication. Classroom, *two hours a week. Two credit hours.*

MR. CREAMER

186. High Frequency Phenomena.—Advanced analytical treatment of topics considered in Course 85, 86 including circuits, apparatus, and radiation phenomena. For graduate students having a knowledge of differential equations and of vector analysis. Prerequisite, Courses 85 and 86. Classroom, *two hours a week. Two credit hours.*

MR. CREAMER

187. Radio Seminar.—A thorough, critical study of a limited number of important current developments in radio engineering. For graduate students who have specialized in electrical communication. Prerequisite, Course 85, 86. Classroom, *two hours a week. Two credit hours.*

MR. CREAMER

188. Circuits Laboratory.—Experimental work based on theory treated in Course 185; oscillographic study of speech sounds and modulation; detection and elimination of speech distortion in amplifiers. Prerequisite, Course 185. Laboratory, *three hours a week. One and one-half credit hours.*

MR. CREAMER

ENGINEERING DRAFTING

PROFESSOR KENT; ASSISTANT PROFESSOR SAWYER; MR. MCNEARY

1. Fundamentals of Drafting.—Instruction and practice in technical sketching and lettering, in the care of drawing instruments, and their use in elementary problems involving right lines, circles, irregular curves, and orthographic projections. Drawing room, *four hours a week. Two credit hours.*

MR. KENT, MR. SAWYER, MR. MCNEARY

2. Elementary Machine Drafting.—A continued study of the methods of orthographic projection, isometric projection, and oblique projection, accompanied by instruction and practice in the making of working drawings, tracings, and blueprinting. Drawing room, *four hours a week. Two credit hours.*

MR. KENT, MR. SAWYER, MR. MCNEARY

2a. Drafting.—Continuation of orthographic projections, with isometric and perspective projections, topographical symbols and their application, map reproduction and enlarging, and blueprinting. Drafting room, *four hours a week. Two credit hours.*

MR. MCNEARY

3. Descriptive Geometry.—The elementary principles and problems of descriptive geometry, including intersections and developments. Recitation and drawing room, *six hours a week. Two credit hours.*

MR. KENT, MR. SAWYER, MR. MCNEARY

4. Advanced Machine Drafting.—A continued study of the making of working drawings of simple machines, together with instruction and practice in blueprinting. Drawing room, *six hours a week. Two credit hours.*

MR. KENT, MR. SAWYER, MR. MCNEARY

9; 10. Agricultural Drafting.—A course designed especially for students in Agriculture and for others who are not engineers. It combines the fundamental principles of Courses 1 and 2. Drawing room, *four hours a week. Two credit hours.*

MR. KENT

54a. Shades and Shadows.—A study of the principles of the casting of shadows on and by architectural objects. A half-semester course. Prerequisite, Course 1. Drafting room, *four hours a week. One credit hour.*

MR. KENT

54b. Perspective.—A study of the principles of architectural perspective and the making of the same. A half-semester course. Prerequisite, Course 1. Drafting room, *four hours a week. One credit hour.*

MR. KENT

ENGINEERING PHYSICS

See course descriptions under Physics Department, College of Arts and Sciences, page 222.

LECTURE COURSES

Gc 5. Orientation.—A course of lectures by members of the staff of the College and other faculty members for Technology freshmen. Designed to better acquaint them with the different fields of study and the opportunities in these fields. Given Monday morning at 11:00 throughout the first semester. *One-half credit hour.*

MR. STEPHENSON, MR. CLOKE

Gc 6. Orientation.—A general lecture course given Monday morning at 11:00 throughout the second semester, consisting of addresses by engineers and business and professional men for Technology freshmen. Open to the public. *One-half credit hour.*

MR. STEPHENSON, MR. CLOKE

MECHANICAL ENGINEERING

PROFESSOR WATSON ; ASSOCIATE PROFESSORS PRAGEMAN AND TAYLOR ;
ASSISTANT PROFESSOR SPARROW ; MR. DAVEE ; MR. PERKINS ;
MR. LEKBERG ; MR. OSGOOD

1. Materials Laboratory.—Practical foundry and metal work with hand and machine tools ; welding, both electric and acetylene. Lectures and demonstrations covering basic foundry practice, including operation of cupolas, etc., basic fundamentals relative to drawing, upsetting, forming, welding, and tempering of various metals. Laboratory work, *six hours a week. Two credit hours.* MR. OSGOOD

2. Pattern Work.—Bench work and wood turning to familiarize the student with the tools used in modern woodworking practice, and to give him experience in working from dimensioned drawings. Pattern work, consisting of making complete patterns and core boxes from drawings, which coordinates this course with foundry practice. Lectures and demonstration. Laboratory work, *six hours a week. Two credit hours.* MR. DAVEE

7; 8. Machine Tool Laboratory.—A small piece of machinery is manufactured which involves a study of the principles and operation of the various machine tools, at the same time including an insight into that phase of manufacturing which requires one part to fit another properly and the entire machine to be readily assembled. Stress is laid upon the selection of feeds, speeds, and depths of cut for various machine processes on ferrous and non-ferrous metals. Laboratory work, *six hours a week. Two credit hours.* MR. PERKINS

9; 10. Machine Tool Laboratory.—A shorter course than 7, 8. Laboratory work, *four hours a week. One and one-half credit hours.* MR. PERKINS

21. Materials of Engineering.—Properties of the metals ; production from ores ; crystalline structure ; heat treatment ; methods of testing. Classroom, *two hours a week. Two credit hours.* MR. LEKBERG

22. Elements of Mechanical Engineering.—A course designed to familiarize the student with the mechanical apparatus of manufacturing and power plants, and elementary mechanical engineering calculations relative to heat, power, work, mechanical energy, and electrical energy as used by mechanical engineers. Laboratory covers elementary experimental work such as calibration of instruments, use of steam and gas engine indicators, use of prony brakes, mechanical efficiency tests, etc. Classroom, *two hours*

a week; laboratory, three hours a week. Three and one-half credit hours.

MR. LEKBERG, MR. OSGOOD, MR. TAYLOR

23. Kinematics.—A study of motion, velocity, and acceleration of machine parts, supplemented by drawings of cams, gear teeth, and graphical studies of kinematical problems. Classroom, *three hours a week*; drawing room, *three hours a week. Four credit hours.* MR. PRAGEMAN, MR. LEKBERG

24. Machine Design.—A study of the design of machines; proportioning of parts for strength, rigidity, etc. Prerequisites, Course 23 and Mechanics 51. Classroom, *two hours a week*. Computation, *three hours a week. Three credit hours.* MR. PRAGEMAN, MR. LEKBERG

27. Kinematics.—A shorter course than 23, arranged for electrical engineers. Recitations, *three hours a week. Three credit hours.* MR. LEKBERG

33. Heat Engineering.—Laws of thermodynamics; laws of gases, saturated and superheated vapors; Carnot's, Rankine's, and actual steam engine cycles; use of steam tables; steam calorimetry; illustrative practical problems. Prerequisites, Mathematics 8 and Physics 1b, 2b, and 21 or 22. Recitation, *three hours a week. Three credit hours.*

MR. WATSON, MR. TAYLOR

34. Heat Engineering.—Simple and compound steam engines, flow of steam, air compressors; flow of air; refrigeration. Prerequisite, Course 33. Recitation, *three hours a week. Three credit hours.*

MR. WATSON, MR. TAYLOR

37, 38. Mechanical Laboratory.—Tests of materials, heating value of liquid and gaseous fuels, steam calorimetry, thermal efficiency, economy, and heat balance test of steam engines, steam turbines, and gas engines. Prerequisite, Course 36. Laboratory, *three hours a week. One and one-half credit hours.*

MR. TAYLOR, MR. SPARROW

39. Mechanical Laboratory.—A course arranged for seniors in Civil Engineering. Testing of strength of materials; measurement of flow of water over weirs, through orifices and nozzles; calibration of venturi meters. Prerequisite, Civil Engineering 26 or 35. Laboratory, *three hours a week. One and one-half credit hours.*

MR. SPARROW

40. Mechanical Laboratory.—A course arranged for seniors in Chemical Engineering. Calibration of instruments; tests of engines; measurement of flow of water; tests of lubricants. Prerequisite, Course 43. Laboratory, *three hours a week. One and one-half credit hours.* MR. SPARROW

41. Mechanical Laboratory.—A course arranged for seniors in Electrical Engineering. Calibration of instruments; testing strength of materials;

testing of steam engines, gas engines, hydraulic testing. Prerequisite, Course 44. Laboratory, *three hours a week. One and one-half credit hours.*

MR. SPARROW

43. Heat Engineering.—A short course for senior chemical engineers covering the laws of thermodynamics and their application to heat motors, air compressors, refrigerating machinery, and power-plant equipment. Recitation, *three hours a week. Three credit hours.*

MR. SPARROW

44. Heat Engineering.—A course similar to Course 33, given to electrical engineers. Prerequisites, Mathematics 8 and Physics 2. Recitation, *three hours a week. Three credit hours.*

MR. SPARROW

45. Heat Engineering.—Simple and compound steam engines; steam turbines; gas engines; gas producers; fuels and combustion; steam and gas power-plant equipment and operation. For seniors in Electrical Engineering. Prerequisite, Course 44. Recitation, *three hours a week. Three credit hours.*

MR. SPARROW

46. Heat Power.—Fuels and combustion, steam and gas power-plant equipment; arrangement, operation, and efficiencies of various types of apparatus. Prerequisite, Course 33. *Three hours a week. Three credit hours.*

MR. TAYLOR, MR. SPARROW

50. Thesis.—The results of some original investigation or design presented in proper form. The subject should be selected early in the fall semester of the senior year. See regulations regarding degrees. *Three credit hours.*

MR. WATSON AND STAFF

71; 72. Mechanical Laboratory.—Tests of condensers, boilers, air compressors, pumps, fans, hydraulic testing. Prerequisite, Course 38. Laboratory, *three hours a week. One and one-half credit hours.*

MR. TAYLOR, MR. SPARROW

78. Hydraulic Laboratory.—A course arranged for students taking Hydraulic Option in Civil Engineering. Testing of impulse and reaction water wheels, flow measurement and friction in pipes and channels, etc. Prerequisite, Course 39. Laboratory, *three hours a week. One and one-half credit hours.*

MR. SPARROW

81. Heat Engineering.—A continuation of Courses 33 and 34, dealing with steam turbines; considerations affecting the design and efficiency of operation of the various types. Recitation, *two hours a week*; computation, *three hours a week. Three credit hours.*

MR. WATSON, MR. TAYLOR

84. Industrial Management.—Lectures and recitations on the various types of organization for industrial enterprises and systems of manage-

ment. It deals with types of ownership, control, selection of plant site, and the elements of machine production, time and motion study, wage systems, and selection of personnel. Prerequisites, Course 24 and Economics 2b. Course 87 accompanying. Classroom, *two hours a week. Two credit hours.*

MR. PRAGEMAN

86. Power Plants.—Design, costs, operating expenses, and economics of steam and gas power plants. Prerequisite, Course 81. Classroom, *three hours a week. Three credit hours.*

MR. WATSON

87. Machine Design.—A continuation of Course 24, including the execution of the design of some typical machines. Prerequisites, Course 23 and 24. Computation, *six hours a week. Two credit hours.*

MR. PRAGEMAN, MR. LEKBERG

88. Dynamics of Machines.—A study of the forces due to reciprocating and rotating masses with special application to balancing high-speed machinery, designing governors and flywheels. Prerequisites, Courses 23, 24 and 87. Recitation, *two hours a week. Two credit hours.*

MR. PRAGEMAN

91. Heating and Air-Conditioning.—Heat resistance of building materials, calculation of heat losses through various types of walls, windows, etc., heating systems, ventilating systems, humidification. Prerequisite, Course 34. Recitation, *three hours a week. Three credit hours.*

MR. WATSON, MR. PRAGEMAN

93. Gas Engines.—Types, operation, fuels and combustion, carburetion, ignition, valves, cooling, governing, determination of cylinder sizes for given fuel and horsepower. Prerequisites, Courses 24 and 33. Classroom, *three hours a week. Three credit hours.*

MR. WATSON, MR. TAYLOR

94. Hydraulic Machinery.—Hydraulic turbines; water wheels, various features of hydraulic power plant development. Prerequisites, Mechanics 52, Civil Engineering 26 or 35, and Mechanical Engineering 23. Recitation, *three hours a week. Three credit hours.*

MR. PRAGEMAN

96. Seminar.—Preparation, presentation, and discussion of papers on leading engineering topics. Classroom, *one hour a week. One credit hour.*

MR. WATSON

98. Factory Organization and Management.—Lectures and assigned reading bearing upon various types of organization for industrial enterprises; planning and equipping of factory plants; systems of managements. Recitation, *two hours a week. Two credit hours.*

MR. PRAGEMAN

101. 102. Metallography.—Polishing, etching, and a microscopic study of the crystalline structure of metals. A study of the effect of heat treatment

on the crystalline structure and physical properties of steel. Classroom, *one hour a week*; laboratory, *four hours a week*. *Three credit hours*.

MR. WATSON

103. 104. Advanced Fluid Flow.—A more theoretical study of flow of gases, vapors, and fluids than in undergraduate courses. Application to fans, blowers, compressors, steam turbines, refrigeration machinery, pumps, piping, and lubrication problems. Laws of similitude, effects of viscosity, applications of dimensional analysis. Classroom, *three hours a week*. *Three credit hours*.

MR. WATSON

Inspection Trip.—A visiting trip of one week's duration to various manufacturing and power plants. This trip is open only to seniors who are eligible for graduation. A complete schedule of the trip is prearranged and a member of the Department staff is in charge of the party.

MECHANICS

PROFESSOR WESTON

51; 52. Mechanics.—The fundamental principles of statics, kinematics, and kinetics, with applications to practical problems; exercises in finding center of gravity and moment of inertia; the study of stresses and strains in bodies subject to tension, compression, and shearing; the common theory of beams, including shearing force, bending moment, and elastic curves; torsional stresses and theories of stress in long columns. Recitation, *five hours a week*. *Five credit hours*.

53; 54: Mechanics.—The fundamental principles of statics, kinematics, and kinetics, with applications to practical problems; the study of simple stresses and strains with such applications as the time permits. Recitation, *three hours a week*. *Three credit hours*.

101. 102. Advanced Mechanics.—General principles of kinematics, statics, and kinetics; the mathematical theory of elasticity; the theory of the potential function with applications to problems in gravitation, hydro-mechanics, etc. Recitation, *two hours a week*. *Two credit hours*.

General Courses

Not sponsored by a single College or School.

TUTORIAL HONORS

The purpose of the Tutorial Honors course is to afford the superior student an opportunity to pursue, under exceptionally favorable conditions, some subject which is deemed important in the equipment of the symmetrically educated person, but for which he has not yet found a place in his course of study. It is not intended to provide instruction in a student's major subject, but to enable him to gratify his intellectual curiosity in some new field. As a rule, only juniors or seniors who have attained the standard of the Dean's List may be admitted, although inclusion in that list is not strictly prerequisite, nor will it serve automatically to admit the student to the course. The course is designed solely for the benefit of the student of ability, ideas, and self-reliance who can profit by the free manner of tutorial instruction and close contact with an adviser specially qualified to direct his study. (This course is to be distinguished from the Junior Honors course of the College of Arts and Sciences.)

Gc 49. 50. Tutorial Honors.—The work is conducted by personal conferences and directed reading. The tutor is selected with the approval of the Committee on Honors Work. *Two credit hours.*

MILITARY SCIENCE AND TACTICS

COLONEL ALCOTT; LIEUTENANT COLONEL HAW; MAJOR HENKLE; MAJOR COOPER; CAPTAIN LOUPRET; SERGEANT HARABOSKY; SERGEANT RINKAUS; SERGEANT ROY

Military instruction is required by law. The department is in charge of an officer of the regular army, detailed by the President of the United States, as Professor of Military Science and Tactics. The course maintained is that of an Infantry and of a Coast Artillery Unit of the Reserve Officers' Training Corps, the purpose of which is to train officers for infantry and coast artillery. The students are organized into infantry companies and coast artillery bat-

teries, including a band. The whole is organized into a battalion officered by cadets selected for character, soldierly bearing, and military efficiency. Instruction is carried on under rules and regulations prescribed by the Secretary of War in accordance with law.

Uniforms (except shoes and leather waist belts), arms, and equipment of the U. S. Army are furnished by the Government.

Each student is required to have a pair of regulation shoes and, to insure uniformity, as well as reduce the cost to the minimum, he is required to secure these from the University. They are issued with the uniform, become the student's property, and the cost is deducted from his military deposit. These shoes are purchased directly from the manufacturers and are charged to the student at cost.

The uniform prescribed is as follows:

For cadet commissioned officers, the olive-drab service uniform prescribed for officers of the U. S. Army, except that "R.O.T.C." insignia are used; for other than commissioned officers, the olive-drab service uniform prescribed for the R.O.T.C. Basic Course.

Cadets are required to wear the uniform when on military duty.

In the following schedule of courses, numbers 1 to 4, inclusive, are required of all physically fit male freshmen and sophomores, citizens of the United States, except students in the Two-Year Course in Agriculture. Course 5, 6 is elective for juniors and Course 7, 8 is elective for seniors. The required courses cover two years' instruction as laid down in War Department regulations. The elective courses also cover two years *and once entered upon* become a prerequisite for graduation. Having completed Courses 1 to 4, inclusive, students electing to continue their military training, who comply with the requirements of law and regulations, are entitled to monetary clothing and subsistence allowances at a rate fixed by the Secretary of War.

A certain number of students, who on March 1 of each year are enrolled in the second year of the Advanced Course (Mt 7, 8), may be designated by the institution as honor graduates. The term "honor graduate" is understood to apply to a graduate whose attainments in scholarship have been so marked as to receive the approbation of the head of the University, and whose proficiency in military training and intelligent attention to duty have won the commendation of the professor of military science and tactics.

The general object of the courses of instruction of the Reserve Officers' Training Corps is to qualify students for positions of leadership in time of a national emergency and to better qualify them for their duties as citizens.

Basic Course, Infantry

Freshman Year, Course 1, 2. *Three hours a week, one and one-half credit hours a semester*

First Semester—National Defense Act and mission of R.O.T.C.; obligations of citizenship; military history and policy; military discipline, courtesy and customs of service; military sanitation and first aid; military organization (General); organization of infantry; leadership, including close and extended order drills, ceremonies, practice of fundamentals of leadership.

Second Semester—Map reading; the rifle and rifle marksmanship; leadership, covering same subjects as in first semester.

Sophomore Year, Course 3, 4. *Three hours a week, two credit hours a semester*

First Semester—Automatic rifle; musketry; characteristics of infantry weapons and those of the supporting arms; leadership (review and continuation of first year's training, stressing fundamentals of leadership).

Second Semester—Scouting and patrolling; combat principles of rifle squad and platoon in attack defense and security; leadership (continuation of first semester's work).

Advanced Course, Infantry

Junior Year, Course 5, 6. *Five hours a week, two credit hours a semester in the College of Agriculture, one and one-half credit hours a semester in the College of Arts and Sciences*

First Semester—Aerial photograph reading; machine guns; howitzer company weapons; pistol; administration; leadership (principles of and instructional methods in, with a thorough theoretical and practical review of basic training on this subject with a view to qualifying advanced students as instructors of basic students in close and extended order drill and ceremonies); care and operation of motor vehicles.

Second Semester—Review of rifle marksmanship; combat training (estimate of situation and combat orders; marches, security, development for combat, offensive and defensive combat, organization of the ground); combat principles of the rifle platoon, machine gun platoon and howitzer company squad; field fortifications; leadership (continuation of first semester's work); defense against chemical warfare.

Senior Year, Course 7, 8. *Five hours a week, two credit hours a semester*

First Semester—Military history and policy; military law I; military law II; leadership (principles of and instructional methods in, being a review of first year advanced training from the point of view of the leader and instructor); review of offensive and defensive combat, organization of the ground, combat orders, solutions of problems; combat principles of the rifle company, machine gun company, and howitzer company platoon in attack, defense, and security.

Second Semester—Combat principles (continuation of first semester); property, emergency procurement and funds; regulations of officers' reserve corps; leadership (continuation of work of first semester); tanks and mechanization; anti-aircraft defense; anti-tank defense; infantry signal communications; combat intelligence.

Basic Course, Coast Artillery

Freshman Year, Course 1, 2. *Three hours a week, one and one-half credit hours a semester*

First Semester—National Defense Act and R.O.T.C.; military obligations of citizenship; military history and policy; military discipline, courtesies, and customs of the Service; military sanitation and first aid; organization of the Army; organization of the Coast Artillery Corps; Coast Artillery ammunition; rifle marksmanship; leadership, theory of close order drill to include the platoon; the practice of close-order drill to include the company and ceremonies.

Second Semester—Coast Artillery weapons and materials; seacoast artillery gun drill; map reading; leadership (continuation of the theory and practice of close order drill to include the company and ceremonies).

Sophomore Year, Course 3, 4. *Three hours a week, two credit hours a semester*

First Semester—Characteristics of naval targets; fire control and position finding for seacoast artillery; drill of seacoast artillery range sections; rigging; operation and maintenance of Coast Artillery motor transportation; leadership (review and continuation of first year's training, adding thereto training in the fundamentals of leadership).

Second Semester—Basic gunnery fire control and position finding for anti-aircraft artillery; drill of anti-aircraft artillery gun section and range

section; anti-aircraft artillery weapons and material; leadership (review and continuation of first-semester work in leadership).

Advanced Course, Coast Artillery

Junior Year, Course 5, 6. Five hours a week, two credit hours a semester

First Semester—Aerial photographic reading; administration; defense against chemical warfare; orientation; signal communications for Coast Artillery fire control and position finding for seacoast artillery; applied gunnery for seacoast artillery; leadership (review of basic training, primarily from the point of view of an instructor and leader).

Second Semester—Basic and applied gunnery, fire control and position finding for anti-aircraft artillery; rifle and pistol marksmanship; leadership (continuation of work of first semester in this subject).

Senior Year, Course 7, 8. Five hours a week, two credit hours a semester

First Semester—Property, emergency procurement and funds; military law; military history and policy; mechanization; orientation; field fortifications for seacoast artillery; leadership (to qualify students as instructors and platoon and battery commanders).

Second Semester—Combat orders and solution of problems (Coast Artillery); technique and elementary tactics for seacoast and for anti-aircraft artillery; Officers' Reserve Corps; leadership (continuation of work of first semester in this subject).

Band

Course 11, 12. Three hours a week, one credit hour a semester

The band consists of two classes of students: (1) those who register for band and receive one hour of academic credit; (2) those who do not register but who usually play with the band on public appearances, at military ceremonies, and on trips of the band as an undergraduate organization. Students who are registered for Band are required to practice two hours per week. For the equivalent of the third hour, they are required to attend such parades, ceremonies, and functions as designated by the Military Department and as requested by the Athletic Association.

PROFESSOR SPRAGUE, CAPTAIN LOUPRET

PHYSICAL EDUCATION AND ATHLETICS**Men's Division**

PROFESSORS WALLACE, CURTIS, BRICE, AND JENKINS; MR. KENYON;
MR. WOODBURY; MR. SEZAK

Athletics for men are under the supervision of the Athletic Board, composed of members of the faculty, alumni, trustees, and students. The management of athletics is in the hands of a faculty manager, who carries out the policies of the Athletic Board.

The schedules of all sports are arranged with the interest of both the University and the individual members of teams in mind. Letters and numerals are awarded by the Athletic Board to those men who earn them in competition in various sports. Admission to all home athletic contests is included in the blanket tax which is paid by each student at the time of registration.

Student managers are appointed in each sport and their work is carried on under the direction of the Faculty Manager. They are awarded a letter in their sport at the satisfactory completion of their duties.

Teams are maintained in varsity, junior varsity, and freshman football, varsity and freshman cross country, varsity relay, varsity and freshman indoor and outdoor track, varsity and freshman baseball, varsity winter sports, varsity and freshman tennis, varsity and freshman basketball, and golf.

The organization of the Physical Education Department has been planned to give the student such experience and instruction as will enable him to establish habits of recreation which will serve to promote healthful physical activity while in college and in his life after graduation. Especial emphasis will be placed upon out-of-door recreational exercises during the fall and spring, while the gymnasium will be used to its full extent during the winter months.

The Intramural Athletic Association is a part of the Physical Education Department, and was organized for the purpose of fostering athletics for men who are not participating in varsity sports at the time and for all others at any time.

Competition is carried on by twenty-three teams in eleven different sports, and it is hoped that it will be possible to increase this number in the near future.

It is the plan of the Department to furnish opportunity for everyone to participate in his favorite physical education activity.

1, 2. Physical Education.—Required of all freshmen. It consists of outdoor and indoor mass games of all types; competitive individual sports, including boxing, wrestling, fencing, corrective exercises, winter sports, elementary apparatus work, and intramural sports. *Two hours a week, no credit.*

3, 4. Physical Education.—Required of all sophomores. Outdoor mass games and athletics, including touch football, volleyball, tennis, softball, horse shoes, winter sports, etc. Also indoor games of all types, corrective work, apparatus work. *Two hours a week, no credit.*

Teachers' Certificate Course in Physical Education for Men

The following courses are for men who wish to prepare themselves to teach Physical Education and obtain a State Teachers Certificate from the State Department of Education. The course is open to juniors and seniors.

A temporary certificate good for two years may be obtained by a graduate of Maine who has had a minimum of six hours in Physical Education plus six hours in the field of Biology or Physiology. Each six hours of additional credit increases the length of the certificate two years up to a total of twenty-four hours when a permanent certificate may be obtained.

Pe 7. Principles of Physical Education and Hygiene.—An introductory course in the interpretation and objectives of physical education. Open to juniors who are preparing to teach. *Three hours a week and field work, two credit hours.*

Pe 8. Physical Examination and Measurements.—This course covers the purposes, management, and techniques of physical examination and first aid with the exception of the determination of organic capacity for activities. Open to juniors who have fulfilled the requirements of Zoölogy 1, 12. *Three hours a week and field work, two credit hours.*

Pe 10. Methods for Teaching Physical Education.—This course deals with the methods of teaching physical education activities through the grades and high school. It also gives opportunity for practice teaching. Open to seniors who have passed Courses 7 and 8. *Three hours a week and field work, two credit hours.*

The following courses are taught by the varsity coach of the particular sport:

Junior Year

Pe 11. Methods of Teaching Football and Basketball.

Pe 12. Methods of Teaching Track and Baseball.

Senior Year

Pe 13. *Methods of Teaching Football and Basketball.*

Pe 14. *Methods of Teaching Track and Baseball.*

Pe 20. *Teaching of Recreational Activities.*—This course includes the study of the need, nature, and function of recreational programs and the conducting of festivals and pageants. Special consideration is given to the contribution of physical education to community recreation in the phases needed by social workers, 4-H Club leaders, directors, and teachers of physical education in organizing and administering recreational programs. Given alternate years in the spring semester. *Three hours a week, three credit hours.*

Pe 21. *The Study of Games and Play Activity.*—This course will cover play and games from a physical education standpoint. A program of games suitable for use in all grades and high school will be formulated; also, carry over games to be used in later life will be taught. A uniform suitable for field work is necessary. *Three hours a week, two credit hours.*

Pe 22. *The Technique of Teaching Gymnastics.*—A course in practical methods and actual teaching of formal work. Corrective work, calisthenics, and apparatus will be taught. A gym suit including rubber-sole shoes is required. *Three hours a week, two credit hours.*

Pe 26. *The Administration of Physical Education in Elementary and Secondary Schools.*—The relationship of physical education to general education will be taken up. Organization of departments; classification of activities; classification of children; time schedules; organization of leaders among children and classroom teachers. Training of leaders. Coöperation with the home. *Two hours a week, two credit hours.*

Pe 31. *Athletic Training.*—This course is designed for acquainting trainers and coaches who do their own training with fundamental facts necessary to the proper conditioning of athletic teams. Applied anatomy, physical examination, diagnosis, prescription, diet, massage, taping, first aid, etc. Also the use of training equipment and buying of necessary supplies. *Three hours a week, two credit hours.*

Women's Division

ASSOCIATE PROFESSOR LENGYEL; ASSISTANT PROFESSOR ROGERS;
MISS CASSIDY

It is the purpose of this department to develop good physical condition among college women by providing opportunity for the formation of wholesome habits and for relaxation and recreation.

A medical examination by the University physician and a physical examination by the Director of Physical Education are given each entering student during the first week of school, and thereafter as often as seems advisable. These are intended: to assist in the placement of the student with reference to her college program in the light of her physical ability and limitations; to inform the student as to her exact physical condition, so that she can intelligently conduct her mental and physical activity; and to discover as soon as possible any organic and physical defects in order to hasten their treatment.

Instructors in all activities are placing particular emphasis on two important aspects; the physical needs of the individual and the fun of the game. To stimulate a wholesome competitive interest on the part of the student, the Maine Athletic Association Women's Branch conducts a series of interclass activities in hockey, basketball, archery, tennis, and other sports.

Regulation gymnasium uniforms, described elsewhere in the catalog, are required for this work.

1, 2. Elementary Physical Education.—Required of all freshmen. Consists of postural and developmental gymnastics and physical efficiency tests of endurance, strength, and agility. Hockey, tennis, basketball, baseball, archery, and track may be substituted for this in season. *Two hours a week, no credit.*

1a, 2a. Modern Dance, Elementary.—May be substituted for Course 1, 2. Elements of the modern dance as introduced by Doris Humphrey and Charles Weidman. Appreciation of the dance is taught. Emphasis is placed upon mood, body control, and the development of imaginative powers. *Two hours a week, no credit.*

3, 4. Advanced Physical Education.—Required of all sophomores. A continuation of Course 1, 2, with advanced gymnastics and apparatus work, and more difficult physical efficiency tests. The sports listed above may be substituted for this in season, for the purpose of developing greater skill and accuracy, as well as providing recreation. *Two hours a week, no credit.*

3a, 4a. Modern Dance, Advanced.—Continuation of Course 1a, 2a with more advanced technique and dance form. May be substituted for Course 3, 4. *Two hours a week, no credit.*

5, 6. Tap Dancing.—Can be taken for Physical Education credit for one year only, either freshman or sophomore year.

Individual Gymnastics.—Required of all freshmen and sophomores referred to the Department by the medical examiner or by their family physician for special work. Prescribed exercises for body building, posture,

foot work, etc. Students who are required to take this work substitute it for Courses 1, 2 and 3, 4. *Two hours a week, no credit.*

21. Hygiene.—A one-semester course, required of all freshman girls in the College of Arts and Sciences. It is designed to give a mature and scientific understanding of the principles of health and to create an interest in their application to one's self, and one's social relationships. Classroom, *two hours a week. Two credit hours.*

MEMBERS OF THE DEPARTMENTAL STAFF AND OTHERS

Teachers' Certificate Courses in Physical Education for Women

The following courses are for students who wish to minor in Physical Education and thus obtain a Secondary State Teachers' Certificate from the State Department of Education.

Prerequisites: Physical Education 1, 2, 3, 4 without credit; General Zoology, *four credit hours*; Elementary Physiology and Hygiene, *two credit hours*; Human Physiology, *four credit hours*.

7. The Principles of Physical Education and Hygiene.—An introductory course in the interpretation and objectives of physical education. Open to juniors who are preparing to teach. *Three hours a week and field work, two credit hours.*

8. Physical Examination and Measurements.—This course covers the purposes, management, and technique of physical examination and first aid with the exception of the determination of organic capacity for activities. Open to juniors who have fulfilled the requirements of Zoölogy 1, 12, and Pe 21. *Three hours a week and field work, two credit hours.*

9. Methods for Teaching Physical Education.—This course deals with the methods of teaching physical education activities through the grades and high school. It also gives opportunity for practice teaching. Open to seniors who have passed Courses 7 and 8. *Three hours a week and field work, two credit hours.*

18. Theory of Girls' Athletics.—It takes up girls' athletics from the standpoint of girls need of physical education. Specializes in athletics. Instruction in organized team games, such as basketball, hockey, tennis, archery; recreational activities, such as volley ball, badminton, deck tennis. Plan and diagram of plays, skeleton practice system, and methods of training. *Three hours a week and field work, two credit hours.*

20. Teaching of Recreational Activities.—This course includes the study of the need, nature, and function of recreation programs and the

conducting of festivals and pageants. Special consideration is given to the contribution of physical education to community recreation in the phases needed by social workers, 4-H Club leaders, directors, and teachers of physical education in organizing and administering recreational programs. Given alternate years, in the spring semester. *Three hours a week, three credit hours.*

24. First Aid.—Given alternate years in the spring semester. This course includes the fundamentals prescribed by the American Red Cross in their First Aid Outline. Upon its completion the American Red Cross First Aid Certificate will be awarded. *Two hours a week, two credit hours.*

It is recommended that students enrolling in the above courses should have at least six hours of each of the following departments: Education, Psychology, Sociology, and Public Speaking.

Graduate Study

ADMINISTRATION

Graduate work is administered by the Faculty and Dean of Graduate Study. The details of administration are in the hands of an executive committee consisting of the Dean, two members from the Agricultural Experiment Station, two from each of the three colleges—Agriculture, Arts and Sciences, and Technology—and two from the School of Education.

ADMISSION

Students who hold a bachelor's degree from the University of Maine, or from an institution granting a fully equivalent degree, and who desire to pursue advanced studies, are admitted as graduate students and are under the direction of the Faculty of Graduate Study, whether they are candidates for a degree or not.

REGISTRATION

At the beginning of each semester all graduate students, whether candidates for a degree or not, are required to register with the head of the department in which they propose to do their major work, obtain the approval of the Dean, and complete their registration by filing their program of study at the Registrar's office. A fee of two dollars is charged for registration after two weeks have elapsed.

TUITION AND FEES

The tuition charges for graduate students are the same as for undergraduates.

Candidates for professional degrees are required to pay a fee of \$5.00 at the time of registration, and a fee of \$10.00 upon the presentation of the thesis.

FELLOWSHIPS AND SCHOLARSHIPS

Applications for graduate fellowships and scholarships should be made to the Dean of Graduate Study by April 1.

TRUSTEE FELLOWSHIPS.—The Trustees of the University established in 1931 three graduate fellowships of the value of \$500 each, to be assigned annually on a competitive basis by a committee of the Faculty of Graduate Study.

TRUSTEE GRADUATE SCHOLARSHIPS.—Eight scholarships, of the value of a year's tuition, have been established by the Board of Trustees, two each for graduates of the three colleges in the University and the School of Education. Holders of these scholarships may be called upon to render a reasonable amount of assistance in their major department.

MARITIME PROVINCES GRADUATE SCHOLARSHIPS.—By action of the Trustees of the University, a graduate scholarship is available annually in each of the four academic divisions of the University, on a competitive basis, for graduates of the colleges and universities in the Provinces of New Brunswick, Nova Scotia, and Prince Edward's Island. These scholarships have a value of \$250, equivalent to a full year's tuition for a student residing without the State.

THE COE RESEARCH FUND

The Trustees of the University have set aside the sum of \$100,000 to form a permanent fund, the proceeds of which are to be used for carrying on various kinds of research work within the University. Applications for grants from this fund should be addressed to Professor E. R. Hitchner, Secretary. It is hoped that this fund may later be increased by grants from other sources.

DEGREES

The degrees of Master of Arts, Master of Science, and Master of Education are granted to candidates who hold suitable bachelor's degrees and fulfill the requirements of residence and scholarship.

A candidate for an advanced degree must give evidence by his previous record that he is qualified to do graduate work of a satisfactory grade. If he is a graduate of another institution he is required to submit, with his plan of study, credentials covering the courses pursued and the standing attained. If he is a graduate of the University of Maine he must present his record from the Registrar's office.

REQUIREMENTS FOR THE MASTER'S DEGREE

General Requirements

A candidate for the master's degree is required to devote at least one year to resident graduate study and to complete work amounting to fifteen hours per week throughout the college year (thirty semester hours). In the case of summer session students, four sessions, or the equivalent, are normally accepted as fulfilling residence requirements, except that for candidates for the degree of Master of Education the requirement is five summers.

The amount of credit which may be transferred from another university is limited to six semester hours; the amount of work which may be done toward a degree in Extension classes, whether held on or off the campus, is limited to six hours.

At least one year must elapse between the conferring of the bachelor's and the master's degree. No work done before the recommending for the bachelor's degree shall be counted toward the master's degree. All requirements for the degree must be completed within an eight-year period.

Program of Studies

As soon after registration as practicable, the student, in conference with his major instructor, will plan his entire course of study for the master's degree, but may postpone until later the selection of a thesis subject. The major instructor will present the proposed curriculum for approval to a committee, which consists of the Dean of Graduate Study and the representatives of the candidate's college on the Executive Committee of the faculty.

The curriculum shall include work in a major department or subject in which the candidate has already completed the equivalent of at least two years of undergraduate study. The work may all be done in one department, or it may include not more than two minor subjects which bear a distinct relation to the general plan or purpose of the major subject. All of the work must be of advanced character and must be tested by examinations which the candidate shall pass with distinction.

Courses of study intended primarily for graduate work are numbered above 100 in the catalog, but courses numbered 51 to 100 inclusive may be counted upon approval. Courses numbered 50 or under may not be accepted for graduate credit.

A thesis is required of all candidates for the degrees of Master of Arts and Master of Science; a paper, for which two semester hours of credit are

allowed, is a requirement for the degree of Master of Education.

Each candidate for a degree is furnished with a registration book containing the names and numbers of the courses which have been approved for his degree.

Foreign Language Requirement

Certain departments have a foreign-language requirement as stated below:

Bacteriology and Biochemistry: a reading knowledge of German. In addition, a reading knowledge of French is recommended.

Botany and Entomology: a reading knowledge of German or French.

Chemistry: an ability to read chemical literature in German.

Plant Pathology: an ability to read the literature of this field in German. In case such an ability has not been previously acquired, approved courses in German should be taken in addition to the graduate work. A reading knowledge of French for literature in this subject is also recommended.

Zoölogy: a reading knowledge of French or German. An acquaintance with both languages is desirable.

For English majors at least an elementary knowledge of Latin, French, and German is recommended.

Theses

The candidate for the degree of Master of Arts or Master of Science shall prepare, as a part of his curriculum, a satisfactory thesis on some topic connected with his major subject. It is ordinarily expected that the thesis shall be a limited piece of original research, with the design of making a minor contribution to scholarship in the student's particular field. A student of proved maturity, intelligence, accuracy, and industry, however, whose objectives and interests are not best furthered by this type of research, may be authorized to submit a thesis of different type. This may consist of a digest and analysis of the literature on a topic or problem of major importance in the student's field; the analysis of a set of accepted statistics in that field; a comprehensive outline and critique of current practices; or a report of a project undertaken and carried on under competent direction.

For students carrying full registration during the regular sessions, the subject shall be submitted and approved by the end of the first semester. The student is not formally admitted as a candidate for the master's degree until the thesis subject has been approved. As the thesis forms a part of the thirty hours required for the above degrees, the student must register for it once, the same as any course.

Detailed requirements for the form and arrangement of theses are found in a pamphlet with the title "Information Concerning the Preparation of Graduate Theses," which may be obtained at the office of the Dean of Graduate Study.

The thesis must be deposited in completed form with the Dean of Graduate Study before the final examination. It must have been previously approved by a committee composed of his major instructor, the head of the major department, and the members of the Executive Committee from the candidate's college, or by a committee which shall be appointed by the Dean of Graduate Study for that purpose. The thesis shall be read and approved by no fewer than three persons.

Degree of Master of Education

The degree of Master of Education is intended for persons with teaching or administrative experience who desire to improve their professional efficiency but who have no intention of doing extended research or of pursuing graduate work beyond the master's degree. Students are not eligible to receive this degree until they have had at least three years of teaching or administrative experience.

The program for this degree, totalling thirty hours of credit, shall contain at least two graduate seminar courses amounting to four credits to be taken during the last three summers of work, and a paper for which two credits are given.

The paper may be of the following types: a critical exposition, a digest and analysis of the literature on a topic or problem, a report of a project undertaken and carried on under competent direction, or the statistical analysis of data on a problem. The subject and plan for this paper must be approved by the end of the fourth summer of work for the degree. The oral examination covers this paper as well as the courses taken.

Examinations and Awarding of Degrees

Near the end of the course of study for the master's degree, and after the thesis has been approved, if this is a requirement for his degree, the candidate will be required to pass an oral examination covering the work done, including the thesis or paper. On request of the major instructor, the time for such examination will be arranged by the Dean of Graduate Study to accord so far as possible with the convenience of all concerned. Oral examinations will ordinarily be held in the months of May and August, but at the discretion of the Executive Committee they may be held at other times.

Oral examinations are conducted by a committee composed of those instructors from whom courses have been taken, and are open to all voting members of the University faculty. Any member of the faculty at the examination has the privilege of questioning the candidate.

Graduates are required to receive their degree in person at Commencement unless especially excused by the President. Students completing their requirements in the summer, however, may have their degrees awarded in the early fall.

PROFESSIONAL DEGREES

The professional degrees of Chemical Engineer (Ch.E.), Civil Engineer (C.E.), Electrical Engineer (E.E.), and Mechanical Engineer (M.E.) may be conferred upon graduates in the curricula of Chemistry, Chemical Engineering, or Pulp and Paper Technology, Civil Engineering, Electrical Engineering, and Mechanical Engineering, respectively, upon the completion of the requirements stated below. Graduates receiving the degree of Bachelor of Science in General Engineering are eligible to receive, upon the completion of the requirements listed below, the professional degree of Chemical Engineer, Civil Engineer, Electrical Engineer, or Mechanical Engineer, depending upon the field of work of the candidate and the judgment of the dean and the heads of departments in the College of Technology.

The presentation of a satisfactory thesis, which shall constitute an original contribution to the advance of engineering, is required of all candidates. The candidate must hold a position of responsibility and must have accomplished professional work of eminence for a period of at least five years subsequent to graduation. A full and complete statement covering the professional experience of the candidate must be presented at the time of registration. Candidates are expected to be present in person to receive their degrees.

UNIVERSITY OF MAINE STUDIES

The *University of Maine Studies*, Second Series, are issued under the direction of the Faculty of Graduate Study, for the purpose of publishing notable pieces of research work produced by graduate students and members of the faculty.

Copies of the *Studies* and lists of subjects may be obtained from the University Library.

Maine Agricultural Experiment Station

GOVERNMENT OF THE STATION

By authority of the Trustees, the affairs of the Station are considered by the Station Council, composed of the President of the University, three members of the Board of Trustees, the Director of the Station, the heads and associates of the various departments of the Station, the Dean of the College of Agriculture, the Director of the Extension Service, the Commissioner of Agriculture, and one member each from the State Pomological Society, the State Grange, the State Dairymen's Association, the Maine Livestock Breeders' Association, and the Maine Poultry Improvement Association. The recommendations of the Council are referred to the Trustees for final action. The Director is the executive officer of the Station, and the other members of the staff carry out the lines of research that naturally come under their departments.

OBJECT

The purpose of the agricultural experiment stations is defined in Acts of Congress establishing them and providing further funds for their support as follows:

"It shall be the object and duty of said experiment stations to conduct original researches or verify experiments—bearing directly on the agricultural industry of the United States as may in each case be deemed advisable, having due regard to the varying conditions and needs of the respective States and Territories," and "including such scientific researches as have for their purpose the establishment and maintenance of a permanent and efficient agricultural industry, and such economic and sociological investigations as have for their purpose the development and improvement of the rural home and rural life."

INCOME

The income of the Station is derived from the following sources: Federal and State appropriations, payments for inspection analyses made for the

Commissioner of Agriculture, and from the sale of farm produce. Through appropriations to the University the State provides for the cost of printing Station publications.

EQUIPMENT

Most of the Station offices are in Holmes Hall, described in the section on University buildings. Agricultural Economics is located in Winslow Hall and Home Economics in Merrill Hall. The Station is equipped with laboratories and apparatus for the conduct of research in the following lines: animal breeding and nutrition, plant breeding and nutrition, chemistry related to agriculture, entomology, plant pathology, agricultural economics, and home economics. Equipment and facilities for dairy husbandry research are available at Highmoor Farm. The Station has extensive collections illustrating the botany and entomology of the State. It has a library of nearly 7,000 volumes comprising agricultural and biological journals and publications of the various experiment stations.

HIGHMOOR FARM

The State Legislature of 1909 purchased a farm upon which the Maine Agricultural Experiment Station "shall conduct scientific investigations in orcharding, corn, and other farm crops." The farm is situated in the counties of Kennebec and Androscoggin, largely in the town of Monmouth. It is on the Farmington branch of the Maine Central Railroad, two miles from Leeds Junction. A flag station, "Highmoor," is on the farm.

The original farm contains 225 acres, about 200 of which are in orchards, fields, and pastures. The Legislature in 1925 provided an appropriation for the purchase of 30 acres adjoining the farm for a demonstration orchard. There are in the neighborhood of 2,500 apple trees upon the place. Fields that are not in orchards are well adapted to experiments with corn, potatoes, and similar farm crops. The house is well arranged for the station offices and for the home of the farm superintendent. The barns are large, affording storage for hay and grain. A cold storage plant has been provided for apples. The capacity of this plant is about 7,500 boxes.

AROOSTOOK FARM

By action of the Legislatures of 1913 and 1915 a farm was purchased in Aroostook County for scientific investigations in agriculture to be under "the

general supervision, management, and control" of the Maine Agricultural Experiment Station. The farm is in the town of Presque Isle, about two miles south of the village, on one of the main roads to Houlton. The Bangor and Aroostook Railroad crosses the farm.

The farm contains about 275 acres, somewhat more than one-third of which is cleared. The eight-room house provides an office and a home for the farm superintendent. The large barn affords storage for hay and grain and has a potato storage house in the basement.

The U. S. Department of Agriculture, Bureau of Plant Industry, co-operates with the Station on some of the research. The Department has erected a small laboratory building, a potato storage house, and a greenhouse on the farm as aids in facilitating the research work.

In 1939 the University purchased, for the use of the Station, an additional one hundred acres of land abutting Aroostook Farm on the north. The new area, known as the Annis Farm, has about 55 acres now in cultivation. About 40 acres additional, now in woods, will be suitable for cultivation when the land is cleared. The farmhouse is being renovated to provide two apartments to be used as quarters for staff members located at Presque Isle during the summer season.

INVESTIGATIONS

The Station continues to restrict its work to a few important lines, believing that it is better for the agriculture of the State to study thoroughly a few problems than to spread over the whole field of agricultural science. It has continued to improve its facilities and segregate its work in such a way as to make it an effective agency for research in agriculture. Prominent among the lines of investigation are studies upon the food of man and animals, the diseases of plants and animals, breeding of plants and animals, investigations in animal husbandry, orchard and field experiments, poultry investigations, entomological, agricultural, home economics research, soil survey, and land use inventory.

INSPECTIONS

The Commissioner of Agriculture is the executive of the laws regulating the sale of agricultural seeds, commercial feeding stuffs, commercial fertilizers, dairy products, drugs, foods, fungicides and insecticides. The law requires the commissioner to collect samples and have them analyzed

at the Station. The law also requires the Station to make the analyses and publish the results. The Station is required by law, also, to make analyses of samples of gasoline and lubricating oils as requested by the State Tax Assessor.

PUBLICATIONS

The Station issues three series of publications: Bulletins, Official Inspections, and Miscellaneous Publications.

The results of the work of investigation are published in part in scientific journals at home and abroad, in U. S. Department of Agriculture publications, and in bulletins of the Station. All of the more important and immediately practical studies are published in the Station Bulletins. The Bulletins for a year together make up the Annual Report. Bulletins are sent to the press of the State, to exchanges, libraries, and scientific workers.

The results of the work of inspection are printed in pamphlet form and are termed *Official Inspections*.

The Miscellaneous Publications consist of newspaper bulletins, circulars, and similar fleeting publications. These are sent to different addresses according to the nature of the subject matter.

Brief summary reports are announced at least once a year of all bulletins published during the year. The reports are sent to all residents of the State whose names are on the Station's mailing list.

On request, the name of any resident of Maine will be placed on the permanent mailing list to receive notices of the Bulletins and Official Inspections as they are published. Upon request, any of the Bulletins or Official Inspections will be mailed free of charge to residents of Maine.

Summer Session

The Summer Session begins the first week in July and continues for six weeks. The faculty is made up mainly of members of the University staff of professorial rank and visiting professors from other institutions. About 135 courses in nineteen departments are now offered. Instruction is given in most of the subjects taught in the College of Arts and Sciences as well as in Chemistry, Chemical Engineering, Pulp and Paper Technology, Physical Education, Home Economics, and Nursing Education. A large amount of work is available in Education.

As an integral part of the University organization, the Summer Session insists upon similar standards of academic achievement. In general, the same requirements for admission and the same regulations apply as during the regular academic year.

The Session is primarily for the benefit of teachers and superintendents of Maine and other states who desire to take professional courses in the field of Education or to pursue other subjects which may be helpful to them in connection with their work. Hence special attention is given to teachers' courses in the various subjects offered. The Session also affords opportunities for students in the University of Maine or other similar institutions to secure credits toward a degree and complete their work in a shorter time than would otherwise be possible. Normal-school graduates who are admitted to advanced standing as candidates for a bachelor's degree in the School of Education may do a considerable part of their work in the Summer Session.

Properly qualified graduates of colleges or universities may enroll in most departments as candidates for a master's degree and complete their work by attendance at the Summer Session. The minimum residence requirement in such cases is four sessions.

Classes meet five times a week, Monday to Friday inclusive. Except in special cases the maximum registration is for three courses, the successful completion of which entitles the student to six semester hours of credit.

A registration fee of \$10 is paid by all students. An additional fee is charged for tuition amounting to \$5.00 for each semester hour of work. This means a total of \$40 for a maximum program of six credits.

The opening and closing dates for 1940 are Monday, July 1, and Friday, August 9. The Summer Session Bulletin, giving a list of the courses offered and detailed information, is published annually about March 15. For copies and other information address Dr. Roy M. Peterson, Director, Orono, Maine.

Extension Courses

The University offers a limited amount of work each year through extension courses given by various departments. These courses are handled by the office of the School of Education. Courses are offered by departments in all the colleges of the University according to the demand for such work. The list is revised and distributed in mimeographed form each year in September.

Three general types of courses are offered as follows: (1) Correspondence courses, which are handled entirely by mail on an individual basis; (2) extension classes, which may be organized in any community where sufficient demand exists, provided an instructor is available for the course desired; (3) Saturday class extension courses which are offered on the campus on Saturday mornings.

College credit toward a degree may be earned by all types of extension courses, subject to the regulations of the department and college in which the student is registered, the approval of which should always be secured in advance if such credit is desired.

Alumni Associations

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 Clerk, Maurice D. Jones '12, Orono
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ALUMNI COUNCIL

Members at Large

	Term expires
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Norman H. Mayo '09, 329 Commercial St., Portland.....	1940
George S. Williams '05, 9 Green St., Augusta.....	1940
Mrs. Hamlyn N. Robbins '19, R.F.D. #1, Scarboro.....	1941
Mrs. Merrill Bowles '21, 176 Nowell Rd., Bangor.....	1941
Richard E. McKown '17, Bar Harbor.....	1941
Robert F. Thurrell '15, East Wolfeboro, N. H.....	1941
Harold Cooper '15, 77 Davis Ave., Auburn.....	1941
Earle R. Gowell '30, Rockland.....	1942
F. Drummond Freese '15, 144 Broadway, Bangor.....	1942
Andrew J. Beck '13, Washburn.....	1942
Miss M. June Kelley '12, 27 Florence Ave., Norwood, Mass....	1942
Harold J. Shaw '14, Sanford.....	1942

College of Agriculture

Frank W. Hussey '25, Presque Isle.....	1941
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College of Arts and Sciences

Hazen A. Ayer '24, 50 Congress St., Boston.....	1942
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College of Technology

Walter H. Burke '06, 2 Rector St., New York City..... 1941

College of Law

Robert W. DeWolfe '07, 102 Exchange St., Portland..... 1940

Alumni Representative on Board of Trustees

Harold M. Pierce '19, P.O. Box 58, Bangor..... 1942

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Franklin County—President, Erroll Dearborn '22, Farmington; Secre-
tary, J. Winston Hoyt '35, Farmington.

Hancock County—President, George D. Bearce '11, Bucksport; Secre-
tary, Gardner B. Tibbetts '22, Ellsworth.

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Co., Brunswick; Secretary, Mrs. L. Everett Curtis '23, 15 Berry
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Piscataquis County—President, Claude I. Sidelinger '17, Monson; Secretary, Mrs. Hugo Cross '20, Guilford.

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South Kennebec—President, Ralph G. Kennison '22, 9 Pike St., Augusta; Secretary, Miss Dorothy E. Mossler '25, 2a Maple St., Augusta.

Waldo County—President, Spurgeon K. Benjamin '35, 11 Grove St., Belfast; Secretary, Miss Barbara Higgins '30, Extension Service, Belfast.

Washington County—President, Oscar L. Whalen '19, 105 Water St., Eastport; Secretary, Mrs. Emma Means '16, Machias.

York County—President, Frederick A. Hobbs '96, Alfred; Secretary, Stacy F. Billings '31, North Berwick.

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1872—

1873—Secretary, George H. Hamlin, Main St., Orono

1874—

1875—

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Secretary, Leslie E. Little, 73 Court St., Augusta
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Secretary, Grover T. Corning, 30 Federal St., Boston, Mass.
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Secretary, Avery C. Hammond, 61 Coe Block, Bangor
- 1912—President, Karl D. Woodward, 259 Broadway, Lachine, Quebec
Secretary, William E. Schrupf, Winslow Hall, U. of M., Orono
- 1913—Secretary, James E. Church, 192 Northern Ave., Gardiner
- 1914—President, Howe W. Hall, Rogers Hall, Univ. of Maine, Orono
Secretary, Richard F. Crocker, Fort Kent
- 1915—President, Raymond H. Fogler, Montgomery Ward Co., Chicago, Ill.
Secretary, Robert F. Thurrell, East Wolfeboro, N. H.
- 1916—Secretary, W. W. Webber, Bucksport
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Secretary, Frank O. Stephens, 21 Academy St., Auburn
- 1918—President, Harry D. Watson, Lord Hall, Univ. of Maine, Orono
Secretary, Walter J. Creamer, Lord Hall, Univ. of Maine, Orono
- 1919—President, Dwight B. Demeritt, Winslow Hall, U. of Maine, Orono
Secretary, Harold M. Pierce, P. O. Box 58, Bangor
- 1920—
- 1921—Secretary, Miss Katherine Stewart, 21 Ohio St., Bangor
- 1922—President, Osgood A. Nickerson, R.F.D. #7, Bangor
Secretary, Ulmer Davis, Columbia Falls
- 1923—President, Henry Doten, Alumni Hall, Univ. of Maine, Orono
Secretary, Mrs. Mary P. Crandon, Stevens Hall, U. of Maine, Orono
- 1924—President, Earl Dunham, 490 State St., Bangor
Secretary, J. Wesley Ames, Slatersville, Rhode Island
- 1925—President, Dr. Joseph M. Murray, Coburn Hall, U. of Maine, Orono
Secretary, Mrs. William Schrupf, 144 College Ave., Orono
- 1926—President, Oren F. Fraser, Leavitt Institute, Turner Center
Secretary, Miss Cora E. Emery, 41 Wendell St., Cambridge, Mass.
- 1927—President, Paul D. Lamoreau, Presque Isle
Secretary, Mrs. Crystal H. Dostie, 47 Mt. Pleasant St., Skowhegan
- 1928—President, David W. Fuller, 6 State St., Bangor
Secretary, Mrs. Barbara P. Skofield, 52 Harlow St., Brewer
- 1929—President, Robert D. Parks, Waldorf System Inc., Syracuse, N. Y.
Secretary, Mrs. Alton R. Lowell, 20 Highland Ave., Bangor

- 1930—President, William H. Daley, 415 Congress St., Portland
Secretary, Kenneth Haskell, 22 Brewer St., Portland
- 1931—President, Clifton E. Curtis, 191 Center St., Bangor
Secretary, Miss Doris Gross, Stonington
- 1932—President, Winthrop Libby, Winslow Hall, Univ. of Maine, Orono
Secretary, Miss Mary G. Bean, 2 Madison St., Bangor
- 1933—President, Russell Shaw, 186 Middle St., Portland
Secretary, Mrs. Dorothy F. Carnochan, 39 Falmouth St., Portland
- 1934—President, Philip S. Parsons, Belfast
Secretary, Miss Madelene Bunker, 443 Beacon St., Boston, Mass.
- 1935—President, George L. Cobb, Montgomery Ward Co., Jamaica, N. Y.
Secretary, Miss Agnes Crowley, 59 Western Ave., Biddeford
- 1936—President, John Sealey, Central Maine Power Co., Augusta
Secretary, Mrs. Phyllis H. Webster, 338 Pine St., Lewiston
- 1937—President, Leslie M. Hutchings, 141½ Haslett St., E. Lansing, Mich.
Secretary, Mrs. Harold Woodbury, Park Lane, Orono
- 1938—President, John R. Gowell, Old Mill Place, Trumbull, Conn.
Secretary, Miss Mary Deering, Court House, Binghamton, N. Y.
- 1939—President, Dana Drew, Old Town
Secretary, Mrs. Donald Huff, Courtmore Apts, 117 Summer St.,
Malden, Mass.

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Secretary, Miss Mary Deering, Court House, Binghamton, N. Y.
- 1939—President, Dana Drew, Old Town
Secretary, Mrs. Donald Huff, Courtmore Apts, 117 Summer St.,
Malden, Mass.

Honors and Prizes Awarded

Members of Honor Societies arranged in order of their establishment at the University of Maine.

Members of Phi Kappa Phi

1939

Anna Mirdza Anderson, Derby; Alma May Armstrong, Portland; Gwendolyn Marie Baker, Brewer; Wilfred Estey Bettoney, Wollaston, Mass.; Edwin Byer, Bangor; Louis Charles Costrell, Bangor; William Henry Craig, Bingham; Philena Emily Dean, Winslow; Robert Wendell Doe, Bingham; Dana Edgecomb Drew, Patten; John Sherwood Edwards, Bridgeport, Conn.; Lucille Mae Epstein, Bangor; Marie Theresa Folsom, Orono; Ruth Evelyn Gregory, Rockland; Walton Earle Grundy, Auburn; Edna Louise Harrison, Newburgh, N. Y.; Edward Keith Hayes, Orono; Alan Fred Kirkpatrick, Old Orchard Beach; Lois Priscilla Leavitt, Orono; Priscilla Haskell Libby, Bangor; William Birney Page, Sebago Lake; Alexander Hinds Raye, Eastport; John Franklin Raye, Eastport; Madge Elizabeth Stacy, Shirley; Edith Harriet Stevens, Pleasant Point; Roger Maxim Stinchfield, Wayne; Venora Mary Stinchfield, Clinton; Marjorie Taylor, Bangor; David White Trafford, Waterville; Artemus Edwin Weatherbee, Bangor; John Franklin Whitney, Presque Isle; Barbara Fern Whittredge, Ansonia, Conn.

Members of Alpha Zeta

1939

Thomas Levi Barker, Vassalboro; Paul Everett Browne, Bethel; Edward Peter Cyr, Lille; Dana Edgecomb Drew, Patten; John Sherwood Edwards, Bridgeport, Conn.; Walton Earle Grundy, Auburn; Robert Edward Hemingway, Caribou; Herbert Arthur Leonard, Thorndike; Wendell Walker Smith, Presque Isle; Roger Maxim Stinchfield, Wayne.

1940

Richard Warren Akeley, Presque Isle; William Dwight Barrell, Turner; Edward Jay Cook, Jr., Rutland, Vt.; Philip Edward Curtis, Caribou;

Myron Stewart Gartley, Presque Isle; Walter Edward Hanley, Orono; Joseph Leonard Harrington, Patten; Orman Pearl Hunt, Clinton; Joseph Myron Johnson, Harrison; Alvah Edward Pangburn, Caribou; Walter Edwin Potter, Sabattus; Donald Calvin Smith, Easton; Ralph Getchell Smith, Exeter; Norman Eveleth Whitney, West Newton, Mass.

1941

Rockwood Norton Berry, Livermore Falls; Owen Halbert Smith, Presque Isle.

Members of Tau Beta Pi

1939

Wilfred Estey Bettoney, Wollaston, Mass.; Ruel Jotham Blackwell, Madison; Robert Billings Bramhall, Quincy, Mass.; Louis Charles Costrell, Bangor; Robert Wendell Doe, Bingham; Charles St. John Hill, Orono; William Rogers Hilton, Bangor; Chester Warren Jones, Canaan; Alan Fred Kirkpatrick, Old Orchard Beach; Reginald Peppard MacDonald, Lynn, Mass.; William Birney Page, Sebago Lake; Alexander Hinds Raye, Eastport; John Franklin Raye, Eastport; Earle Duncan Reed, Augusta; Ralph Durell Sanborn, Palmer Mass.; Frederick Hastings Stetson, Bangor; John Franklin Whitney, Presque Isle; Algird George Yozukevich, Auburn.

1940

Wallace Ames Beardsell, Weston, Mass.; Robert Harlan Bonney, Portland; Leon Joseph Breton, Rumford; William Heywood Chandler, Portland; William Sherwood Cook, Tenants Harbor; Stephen Keith Gross, Camden; Philip Allan Hutchinson, West Buxton; Wiljo Maurice Lindell, Warren; Richard Gwynne Morton, Farmington; Edwin Stanton Rich, Charleston; Eugene Osborn Russell, Yarmouth; Edward Waldron Stanley, Farmington; Guy Susi, Pittsfield.

Members of Xi Sigma Pi

1939

Gordon Lewis Chapman, Portland; William Henry Craig, Bingham; Ralph Lewis Demont, Old Town; Philip Farnsworth Grant, Cherryfield;

Roy Leighton Miller, Quincy, Mass.; Richard Anderson Monroe, Melrose, Mass.; Raymond Lloyd Nelson, Concord, Mass.; Richard Quigley, Providence, R. I.; James Merrill Stoddard, Eastport; Karl Frederick Wenger, Springfield, Mass.

1940

John Chase Alley, Portland; Earle Dutton Bessey, Jr., Brooks; Eldon Ralph Clark, Dennysville; Carleton Paul Duby, Bradley; Maynard Whitney Files, Portland; William Henry Hatch, Dark Harbor; Richard Holmes, Northeast Harbor; Fred Edward Holt, Oxford; Chester Morris Ladd, Waterville; John Thornton Maines, Hartford, Conn.; John Harold Pratt, Oxford; Roger Boardman Trask, Bangor.

Members of Phi Beta Kappa

1939

Anna Mirdza Anderson, Derby; Lucille Mae Epstein, Bangor; Edward Keith Hayes, Orono; Priscilla Haskell Libby, Bangor; Madge Elizabeth Stacy, Shirley; Edith Harriet Stevens, Pleasant Point; Marjorie Taylor, Bangor; David White Trafford, Waterville; Artemus Edwin Weatherbee, Bangor; Barbara Fern Whittredge, Ansonia, Conn.

1940

Helma Katrina Ebbeson, Bangor; Elnora Louise Savage, Bangor.

Members of Omicron Nu

1939

Gwendolyn Marie Baker, Brewer; Vera Estelle Brastow, Brewer; Philena Emily Dean, Winslow; Marie Theresa Folsom, Orono; Jean Isabelle Grange, Smyrna Mills; Edna Louise Harrison, Newburgh, N. Y.; Charlotte Rose Hennessey, Portland; Lois Priscilla Leavitt, Orono.

1940

Eleanor Maxine Robertson, Portland; Margaret Olive Steinmetz, Orono; Marion Rhoda Tufts, South Berwick.

Members of Kappa Delta Pi**1939**

George Elmer Burns, Mexico; Eleanor Allbee Cousins, East Blue Hill; Ruth Evelyn Gregory, Rockland; Frank Holmes Kent, Wytovitlock; Helen Clarissa McCully, Farmington; Alice Rowena Richardson, Fairfield; Barbara Eunice Seavey, Bangor; Venora Mary Stinchfield, Clinton; Mildred Sutter, Presque Isle; Katherine King True, Hope; Hilda Elzira Weymouth, Morrill.

1940

Ervin Alexander Arbo, Brownville; Thelma Nesta Brown, Waterville; Hope Adelaide Jackman, Orono; Dana Forrest Kennedy, Bangor; Everett Herrick Nason, Brunswick; Evelyn Ruth Woods, Gorham.

Scholarships and Prizes

The Merritt Caldwell Fernald Scholarship—Eugene Osborn Russell, Yarmouth.

The James Stacy Stevens Scholarship—Helma Katrina Ebbeson, Bangor.

The Harold Sherburne Boardman Scholarship—Robert Harlan Bonney, Portland.

The Leon Stephen Merrill Scholarship—Chester Morris Ladd, Waterville.

The Charles Davidson Scholarship—Ervin Alexander Arbo, Brownville.

The University Scholarships—Leon Joseph Breton, Rumford; Lester Duran Chipman, Mechanic Falls; Lloyd Bryon Crossland, Mexico; Ruth Jeanette Garrison, Madison; Lloyd Wilfred Griffin, Bradford, Mass.; Rudolph Eric Haffner, Portland; Joseph Leonard Harrington, Patten; Martha Elizabeth Hutchins, Kingfield; Clarence Wayland Jones, Rumford; Wiljo Maurice Lindell, Warren; Alvalene May Pierson, Tenants Harbor; Ernestine King Pinkham, Portland; Edwin Stanton Rich, Charleston; Marion Rhoda Tufts, South Berwick; Hugh Edwin Young, Aurora.

Trustee Graduate Scholarships—Robert Vinton Akeley, Presque Isle; Lucille Epstein, Bangor; John Philip Harriman, Cherryfield; Mildred Holmes, Eastport; Priscilla Haskell Libby, Orono, (fall semester); Beverly Ross Nason, Old Town; Philip Charles Perkins, Castine; Virginia Margaret Tuttle, East Corinth (spring semester); Karl Frederick Wenger, East Longmeadow, Mass.

Maritime Provinces Scholarship—Henrietta Elizabeth Forde, Cookshire, Quebec, Canada.

Trustee Graduate Fellowships—Alan Fred Kirkpatrick, Old Orchard Beach; Gwilym Richard Roberts, Brownville; Merle Wesley Wing, Old Town.

Secondary School Contest Scholarships, awarded June, 1939:

Four-Year Scholarship—Sara Margaret Heaton, Portland High School, Portland.

Three-Year Scholarship—Paul Smith, Bangor High School, Bangor.

Two-Year Scholarship—Thomas William Easton, Bridgton High School, Bridgton.

One-Year Scholarships—James Richard Ambrose, John Bapst High School, Bangor; Phyllis Maude Bryant, Madison High School, Madison (one-half year); Evelyn Arlene Gerrish, Edward Little High School, Auburn; Frank Charles Holden, Stearns High School, Millinocket; Robert Dunlap Jenkins, Orono High School, Orono; Harriet Howard Ordway, North Yarmouth Academy, Yarmouth (one-half year).

The Hovey Memorial Scholarships—Harlow Dailey Adkins, Norway; Ruel Jotham Blackwell, Madison; Philip Allan Hutchinson, West Buxton; Wiljo Maurice Lindell, Warren; James Oliver Williams, Ogunquit.

The Charles H. Hood Fund Scholarships—Roy Laurel Anderson, Newport; Edward Jay Cook, Jr., Rutland, Vt.; Frederick Marshall Crouse, Crouseville; Herbert Findlen, Fort Fairfield; Orman Pearl Hunt, Clinton; Donald Murray Kilpatrick, Presque Isle; Norman Eveleth Whitney, West Newton, Mass.

The W. H. Bowker Scholarships—Dean Wendell Ebbett, Presque Isle; Earl Berfield Langley, Easton.

The Maine Normal School Scholarships—Albert Edwin Hill, Warren; Wayne Victor Hoy, Sherman Mills; Phyllis Lillian Smart, LaGrange.

The General Alumni Association Scholarship—Mary Ellen Buck, Monticello.

The William Emery Parker Scholarship—Donald Calvin Smith, Easton.

The Charles H. Payson Scholarships—Wesley Daniel Anderson, Mars Hill; William Roberts Booth, Cumberland Center; Robert Eugene Chute, Norway; Albion William Fenderson, Sanford; Norma Frances Gray, Cape Elizabeth; Virgil Stewart Pratt, Stillwater; Shirley Gwynne Webster, Lincoln; Marjorie Marion Whitehouse, Augusta.

The Bertha Joy Thompson Scholarships—William Henry Hatch, Dark Harbor; Hazel Thelma King, Saco; Elinor Frances Langdon, Kittery; Anna Margaretha Simpson, South Gray; Norma Leone Sylvester, Deer Isle; Linnea Beatrice Westin, Bangor.

- The Philip R. Hathorne Scholarships—Wilson Merriman Alford, Windsor, Conn.; John Norman Harris, Anson; George Vincent Murphy, Bar Harbor.
- The James Norris Hart Scholarships—Donald Vardy Taverner, Augusta; Stuart Frank Svedeman, East Milton, Mass.
- The Hosea B. Buck Memorial Scholarship—Charles Albert Peirce, Jr., Bangor.
- The Charles F. Woodman Scholarships—Myer Alpert, Bangor; Frederick Arthur Mitchell, Kingfield; Clifton Eugene Whitney, Winn.
- The Women's Student Government Scholarships—Alma Mabel Hansen, South Portland; Edith Irene Whitman, Stonington.
- The New York Alumni Association Scholarship No. 1—Brooks Brown, Jr., Augusta.
- The New York Alumni Association Scholarship No. 2—Robert Harlan Bonney, Portland.
- The Kidder Scholarship—Eugene Osborn Russell, Yarmouth.
- The Chicago Alumni Association Scholarship—Edgar Thurlow Pitts, Stonington.
- The Western Pennsylvania Alumni Association Scholarship—Edward Waldron Stanley, Farmington.
- The Joseph Rider Farrington Scholarship—Donald Brooks Holyoke, Brewer.
- The Stanley Plummer Scholarship—Gerard Alphonse Goulette, Dexter.
- The Elizabeth Abbott Balentine Scholarship—Calista Louise Buzzell, Milford.
- The Class of 1905 Scholarship—Charles Thomas Keniston, Bridgton.
- The Carrol C. Jones Scholarship—John Hathaway Reed, Fort Fairfield.
- The Ohio Alumni Association Scholarship—Virginia Lucille Barstow, Brewer.
- The Boston Alumni Association Scholarships—Clarence Kitchener Genge, Arlington, Mass.; George Carl Risman, Roxbury, Mass.
- The Lincoln County Alumni Association Scholarship—Boynton Locke, Jr., Boothbay Harbor.
- The Northern Aroostook Alumni Association Scholarship—Charles Lancaster Weaver, Presque Isle.
- The Philadelphia Alumni Association Scholarship—Neal Harvey Walker, Wiscasset.
- The Southern New Hampshire Alumni Association Scholarship—James Alden Reed, Boothbay.
- The Worcester County, Massachusetts, Alumni Association Scholarship—Alfred Roy Bridgford, Jr., Leicester, Mass.
- The York County Alumni Association Scholarships—Ruth Ellen Benson, Kennebunkport; Gerald Ellsworth Spofford, Kennebunk.

- The Connecticut Alumni Association Scholarship—John Michael Dillon, Naugatuck, Conn.
- The Knox County Alumni Association Scholarship—Frederick Mauran Perry, Rockland.
- The Piscataquis County Alumni Association Scholarship—Winston Eugene Pullen, Monson.
- The Portland Alumnae Association Scholarship—Josephine Anne Freeman, Portland.
- The Hancock County Alumni Association Scholarship—Edgar Thurlow Pitts, Stonington.
- The John M. Oak Scholarship Awards—George Hathaway Ellis, Orono; Allston Prentice Keyes, Washington, D. C.; John William Perry, Old Town.
- The Class of 1911 Scholarship—Anna Elizabeth Verrill, Westbrook.
- The Agricultural Club Scholarship—Orman Pearl Hunt, Clinton.
- The Maine Farm Bureau Fund Scholarships—Leroy Clark Brown, Farmington; Eva Adeline Clark, Orono.
- The Class of 1909 Fund Scholarship—Edith Jacobs, West Baldwin.
- Phi Beta Kappa Scholarship—Donald Brown Devoe, Bangor.
- Sophomore Owls Scholarship—Herbert Harrison Johnson, Onawa.
- Senior Skulls Society Scholarships—Norris Stanwood Adams, Portland; Franklin Wilson Rich, Charleston; Francis Eugene Turner, Bangor.
- The Chi Omega Sociology Prize—Corinne Louella Comstock, Millinocket.
- The Prize of the Class of 1873—James Oliver Hamilton, Waterboro.
- The Alpha Omicron Pi Alumnae Prize—Mary Alexia Cowin, Orono.
- The Sigma Mu Sigma Award—Margaret Robinson Romero, Bangor.
- The Pale Blue Key Award—Benjamin Franklin Graham, Milton, Mass.
- The Henry L. Griffin Prize in English Composition—Charles Smith Benjamin, Jr., Ridgewood, N. J.
- The Franklin Danforth Prize—Walton Earle Grundy, Auburn.
- The Greek Culture Prize—Joan Elinor Fales, Waterville.
- The Spanish Club Prize—Risha Gertrude Katz, Brookline, Mass.
- The Mary Ellen Chase Prize—Frederick Clark Thurston, Bangor.
- The Alpha Zeta Senior Award—Herbert Arthur Leonard, Thorndike.
- The Senior English Essay Prize—Clark Glamis Kuney, Boston, Mass.
- The Class of 1908 Commencement Cup—Class of 1889.
- The Twentieth Century Cup—Class of 1909.
- The Fraternity Scholarship Cup—Phi Eta Kappa.
- The Freshman Scholarship Cup—Edward Little High School, Auburn.
- The Charles Rice Cup—Kappa Sigma.
- The Washington Alumni Association Watch—Dana Edgecomb Drew, Patten.
- The Portland Alumnae Association Watch—Ruth Alta Pagan, Deer Isle.

Commencement 1939

Thursday, June 8

8:00 P.M. Commencement Ball—Alumni Memorial

Friday, June 9

11:00 A.M. Senior Class Meeting—Little Theatre
 2:00 P.M. Alumni Council Annual Meeting
 1:45 Class Day Exercises—Alumni Memorial
 3:30 Pageant—given by All-Maine Women—Alumni Memorial
 4:30-6:00 President and Mrs. Hauck—"At Home"

Saturday, June 10

7:45 A.M. Class Breakfasts
 8:45 Reunion Class Meetings in headquarters rooms
 9:00 Board of Trustees Meeting
 10:00 General Alumni Association Annual Meeting—Alumni Hall
 12:30 P.M. Alumni Luncheon—in honor of Fifty-Year Class, 1889—
 Alumni Memorial
 2:00 University of Maine Foundation—Annual Meeting
 2:00-2:30 Band Concert—The Oval
 2:30-3:30 Frolics—The Oval
 3:30-5:00 Alumnae Tea—Balentine Hall
 3:45 Baseball Game—Alumni vs. Seniors—Baseball Field
 5:30 Alumni Parade
 6:00 Alumni Banquet—Alumni Memorial
 9:30 Alumni Hop—Alumni Memorial

Sunday, June 11

10:30 A.M. Baccalaureate Service—Alumni Memorial
 6:45 P.M. Senior-Alumni Sing—The Oval

Monday, June 12

9:30 A.M. Commencement Exercises—Alumni Memorial

Degrees Conferred, 1939**COLLEGE OF AGRICULTURE****Bachelor of Science**

IN AGRICULTURAL ECONOMICS AND FARM MANAGEMENT

PAUL EVERETT BROWNE.....	Bethel
KENNETH EDWARD CLARK.....	Fort Fairfield
PHILIP CHARLES CRAIG.....	Patten
TIMOTHY FRANCIS CURTIN.....	Boothbay Harbor
DANA EDGECOMB DREW, <i>With High Distinction</i>	Patten
MAISON KEITH GOODRICH.....	Patten
THOMAS WILLIAM HALL.....	Wiscasset
BERNARD GUY HANNIGAN.....	Houlton
RICHARD HOMER HOWARD.....	Sangerville
WILLIAM EDWARD MCCARTHY.....	Rumford
SEWALL OTIS MILLIKEN.....	Portland
DONALD HERBERT PERRIN.....	Sherman Mills

IN AGRONOMY

EMBERT CLASON BUCK.....	Harrison
EDWARD PETER CYR.....	Lille
ROBERT CALVIN FARRIS, JR.....	Union
ROBERT EDWARD HEMINGWAY.....	Caribou
WILLIAM JOSEPH SIROIS.....	Fort Fairfield
WENDELL WALKER SMITH.....	Presque Isle
LEANDER MAYFORD SPROWL.....	Searsmont

IN ANIMAL HUSBANDRY

THOMAS LEVI BARKER, <i>With Distinction</i>	Vassalboro
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IN BACTERIOLOGY

WALTON EARLE GRUNDY, <i>With Highest Distinction</i>	Auburn
ROGER MAXIM STINCHFIELD, <i>With High Distinction</i>	Wayne

IN BOTANY

KENDRICK YALE HODGDON.....	Anson
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IN DAIRY HUSBANDRY

ROGER CONANT CLEMENT.....	Monroe
JOHN SHERWOOD EDWARDS, <i>With High Distinction</i>	Bridgeport, Conn.
FRANKLIN WILSON RICH.....	Charleston
CLEMENT HAROLD SMITH.....	Monmouth
FRANK JOHNSON WASHBURN.....	Dover-Foxcroft

IN DAIRY TECHNOLOGY

HERBERT ARTHUR LEONARD.....	Thorndike
SHELDON LEROY WARD.....	Thorndike
EDWIN CONRAD WOODLAND.....	Watertown, Mass.

IN ENTOMOLOGY

MERLE WESLEY WING, <i>With Distinction</i>	Old Town
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IN FORESTRY

JAMES BEST CAHILL.....	Haworth, N. J.
GORDON LEWIS CHAPMAN.....	Portland
ALBERT LEWIS CLARK.....	Camden
ROBERT BOONE COOK.....	Presque Isle
WILLIAM HENRY CRAIG, <i>With High Distinction</i>	Bingham
RALPH LEWIS DEMONT.....	Old Town
GEORGE EDWARD DOE.....	Kezar Falls
HARLAN PRATT FITCH.....	Groton, Mass.
FRANCIS BRETT FORTIER.....	Dexter
PHILIP FARNSWORTH GRANT, <i>With Distinction</i>	Cherryfield
ELMER COLBURN HART.....	South Hope
ARTHUR JOHN LIPPKE, JR.....	Jamaica, N. Y.
ROY LEIGHTON MILLER.....	Quincy, Mass.
RICHARD ANDERSON MONROE, <i>With Distinction</i>	Melrose, Mass.
RAYMOND LLOYD NELSON.....	Concord, Mass.
WILLIS RALPH PHAIR.....	Limestone
RICHARD QUIGLEY.....	Providence, R. I.
FRANCIS WAGER SMITH.....	Hamden, Conn.
JAMES MERRILL STODDARD.....	Eastport
DONALD FRANCIS STROUT.....	Livermore Falls
RICHARD EARL THOMAS.....	Rockland
KARL FREDERICK WENGER, <i>With Distinction</i>	Springfield, Mass
ALBERT HARRY WHITELEY.....	Limerick
DONALD FRANCIS WITHERSPOON.....	North Haven

IN HOME ECONOMICS

GWENDOLYN MARIE BAKER, <i>With High Distinction</i>	Brewer
RUTH ESTELLE BARTON.....	West Gray
ELEANOR LUCILLE BELL.....	Albany, N. Y.
VERA ESTELLE BRASTOW, <i>With Distinction</i>	Brewer
VIRGINIA BURKE.....	Whitman, Mass.
MARY EDITH BUZZELL.....	Fryeburg
ETHEL MAXINE CATES.....	Thorndike
LAURA GRACE CHUTE, <i>With Distinction</i>	Brewer
BARBARA CORBETT.....	Orono
CATHERINE ELLA COX.....	Sea Cliff, N. Y.
HAZEL BERNICE CURRAN.....	Milo
ELIZABETH CURTIS.....	Searsport
DOROTHY DAVIS.....	Longmeadow, Mass.
PHILENA EMILY DEAN, <i>With Distinction</i>	Winslow
CHARLOTTE LOUISE DIMITRE.....	Calais
MARION PHOEBE DUNBAR.....	Belfast
BULA LOUISE FITCH.....	New Sharon
MARIE THERESA FOLSOM, <i>With Distinction</i>	Orono
MARY ELDRIDGE FROST.....	York Village
BARBARA GRACE.....	Lynnfield Center, Mass.
JEAN ISABELLE GRANGE, <i>With Distinction</i>	Smyrna Mills
EDNA LOUISE HARRISON, <i>With High Distinction</i>	Newburgh, N. Y.
CHARLOTTE ROSE HENNESSY, <i>With Distinction</i>	Portland
MARY ELIZABETH HENRY.....	Thomaston
ELIZABETH WEST HOMANS.....	Bangor
MARGARET LOUISE HUFF.....	Biddeford
MARION FRANCES KISZONAK.....	Lisbon Falls
STACIA VICTORIA KUFEL.....	Shirley, Mass.
LOIS PRISCILLA LEAVITT, <i>With High Distinction</i>	Orono
JULIA RUTH MOYNIHAN.....	Madison
ETHELYN ARLENE PARKMAN.....	Lynn, Mass.
ELIZABETH HUNT REID.....	Augusta
MARIAN EMERSON ROBERTS.....	Kennebunk
ANTORIA SHIRLEY ROSEN.....	New Sweden
JEAN CUMMINGS SANBORN.....	Bangor
BEULAH LILAH SHAW.....	Freeport
DEBORAH FLORENCE STEVENS.....	Turner
JANET WHITING ST. PIERRE.....	Bangor

IN HORTICULTURE

ARTHUR JESSE CHICK, JR.....	Monmouth
AFTON HOLMES FARRIN, JR.....	South Bristol

IN POULTRY HUSBANDRY

BERTRAM WENDELL AMES	Bangor
LEONARD MAURICE BRANN	North Whitefield

IN WILDLIFE CONSERVATION

RICHARD FOSTER CROCKER, JR.....	Fort Kent
MERWIN ABBOTT MARSTON	East Waterford
WESTON PIKE NORTON	Strong

COLLEGE OF ARTS AND SCIENCES

Bachelor of Arts

IN CHEMISTRY

ANN QUINCY BARTLETT	Sorrento
HAROLD EDISON	Brooklyn, N. Y.

IN DRAMA

CLARK GLAMIS KUNEY	Boston, Mass.
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IN ECONOMICS

MARY LESLIE BEARCE	Bucksport
WILLIAM FOSTER CLIFFORD	Westmount, Que., Canada
CARLETON CLARK CRESSY	Millinocket
DEARNLEY CROTEAU	Lisbon Falls
ELIZABETH RACHEL DIXON	Old Town
HARLAND LAURELL DODGE	Hudson Falls, N. Y.
HAROLD UDELL ESTABROOK	Calais
ALBERT FRIEDMAN	Bangor
MILTON SYLVESTER JELLISON	Bangor
LEON WALTER KONECKI	South Portland
ALDEN LANCASTER	Presque Isle
LEONARD CARLETON MERRILL	Brewer

CLAYTON DAVIS MERSEREAU.....	Sebago Lake
DONALD JAMES MOORE.....	Bangor
RAYMOND FRANCIS NORTON.....	Bangor
JOHN WILLIAM PERRY.....	Old Town
THOMAS SEARS PINKHAM, JR.....	Fort Kent
ROBERT DAVIS RICH.....	Portland
IRVING GILBERT SAEX.....	Holyoke, Mass.
GERALD TURNER SMALL.....	Bangor
ERNEST LINCOLN SPEIRS.....	Westbrook
DORA LOUISE STACY.....	Shirley
MADGE ELIZABETH STACY, <i>With Distinction</i>	Shirley
OWEN WENTWORTH.....	Kennebunkport

IN ENGLISH

ANNA MIRDZA ANDERSON, <i>With Honors</i>	Derby
MARION PATRICIA BORDEN.....	South Portland
EVA ISOBEL CHASE.....	Limestone
SYBIL KENT GREEN.....	Orono
CHARLOTTE EDITH KING.....	Bath
PRISCILLA HASKELL LIBBY, <i>With Highest Honors</i>	Bangor
FERNE MARGUERITE LUNT.....	Houlton
MARY VIRGINIA MAGUIRE.....	Portland
ANITA ELINOR MILLER.....	Monmouth Beach, N. J.
EUNICE JOSEPHINE NELSON.....	Old Town
MARY JOSEPHINE ORR.....	Old Town
MARGARET ROWEN ORSER.....	Fort Fairfield
CHARLES SPEROS PATRINELIS.....	Portland
FREDERICK GILLIS PATTERSON.....	Castine
BRIAN PENDLETON.....	Lewiston
ALICE PIERCE.....	Lunenburg, Mass.
MARGARET LOUISE RICE, <i>With Honors</i>	Orono
EDITH HARRIET STEVENS, <i>With High Honors</i>	Pleasant Point
ALBERT PLUMMER TONER.....	Lewiston
ELAINE ELIZABETH VANNOSTRAND, <i>With Honors</i>	Somerville, N. J.
AUDREY JUANITA WHITE.....	South Portland

IN GERMAN

DENNIS JOSEPH CURRAN.....	Bangor
LAWRENCE SYLVESTER STAPLES.....	Stonington

IN GOVERNMENT

ERWIN ELLING COOPER.....Mattapan, Mass.

IN HISTORY

LUCILLE MAE EPSTEIN, *With High Honors*.....Bangor
 MILDRED HAMLIN HAYNES.....South Waterford
 DOROTHY MILDRED HINES.....Middletown, Conn.
 DAVID WHITE TRAFFORD, *With Highest Honors*.....Waterville

IN HISTORY AND GOVERNMENT

MERRILL RAY BRADFORD.....Bangor
 RUTH ALTA PAGAN.....Deer Isle
 LOUIS REID RUSSELL.....Fort Fairfield
 PHILIP ROSWELL TEMPLE.....Hopedale, Mass.
 ARTEMUS EDWIN WEATHERBEE, *With Honors*.....Bangor

IN MATHEMATICS

EUNICE MARIANNE GALE.....Portland
 JEANETTE LAMOREAU.....Presque Isle
 BERENICE MAUDE LEIGHTON.....Harrington
 ALFRED PARKER MALLET.....South Portland
 MARJORIE TAYLOR, *With Distinction*.....Bangor

IN PSYCHOLOGY

HELEN MARDEN BOND.....Bangor
 ELISABETH JEAN DOBLE.....Beverly, Mass.
 ALLEN LYFORD DYER.....Camden
 JOAN ELINOR FALES.....Waterville
 ROBERT TYLER HARRIS.....Salem, Mass.
 MARGARET LEONORA HOXIE.....Belfast
 MARGUERITE EDITH KYER.....Brewer
 EDWARD RANKIN LADD.....Rockland
 LILLIAN MAE MITCHELL.....Orono
 CORWIN HORACE OLDS.....Rockland
 DOROTHY SILVER.....Bangor
 HARRIETTE DALRYMPLE STEWART.....Waterville
 FRANCIS EUGENE TURNER.....Bangor
 DOROTHEA AGNES VAIL.....Cornwall-on-Hudson, N. Y.
 MURDER LAYNE WALTON.....Lisbon

IN ROMANCE LANGUAGES

ALMA MAY ARMSTRONG, <i>With High Honors</i>	Portland
ELEANOR MABEL CROCKETT.....	Hopedale, Mass.
CHARLOTTE HOPE CURRIE.....	Hartland
LUCILLE CARROLL FOGG.....	Bangor
THERESA EVELYN JOHNSON.....	South Portland
MARJORIE GLORIA MOULTON.....	Randolph
JEANNETTE WINTER SANBORN.....	Bangor

IN SOCIOLOGY

EVANGELINE DEBORAH ANDERSON.....	Monson
PAULINE WEALTHA DAVEE.....	Orono
PAUL HERBERT WILLIAM OLANDER.....	Ellsworth
BARBARA FERN WHITTREDGE, <i>With Distinction</i>	Ansonia, Conn.

IN ZOOLOGY

CORA ALICE BAILEY.....	Waterville
EDWIN BYER.....	Bangor
ROBERT SMALL CAIL.....	Portland
JOSEPHINE O'BRIEN CAMPBELL.....	Machias
EDWARD KEITH HAYES, <i>With Distinction</i>	Orono
STANLEY WORDSWORTH STAPLES.....	Gardiner
GEORGE LEONARD TEMPLE.....	Lewiston
HARLAND GLIDDEN TURNER.....	Augusta

SCHOOL OF EDUCATION

Bachelor of Arts in Education

MARY ELIZA COOPER.....	Albion
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Bachelor of Science in Education

LOUIS JOSEPH BOURGOIN.....	Frenchville
MARY PRISCILLA BROOKS.....	Eastport
GEORGE ELMER BURNS.....	Mexico
MARGARET EILEEN CASSIDY.....	Bangor
PAUL S. CHAPMAN.....	Bethel
VERNITA GERTRUDE COLSON.....	Stockton Springs

ELEANOR ALLBEE COUSINS	East Blue Hill
CLIFFORD LEWELLYN DAIGLE	Fort Kent
MARIE ANNE DAIGLE	Fort Kent
MARGARET ELIZABETH DALZELL	Unity
WILLIAM CLIFTON DARROCH	Princeton
HUGH ALLAN GILLIS	Lincoln
RUTH EVELYN GREGORY, <i>With High Distinction</i>	Rockland
WILLIAM FRANK GRIFFIN	Levant
JAMES EARLE JONES	Hartford, Conn.
FRANK HOLMES KENT	Wytopitlock
CHARLES RALPH LEAVITT	West Enfield
MELVIN THEODORE LEIGHTON	Bangor
LAURICE ERVIN LEWIS	Vassalboro
HELEN CLARISSA McCULLY	Farmington
GRANVILLE BUTMAN MACMILLAN	Stillwater
ARTHUR WILBER NELKE, JR.	Brewer
JOHN ALBERT NORTON, JR.	Portland
CLARENCE OWEN PARLIN	Starks
IDA-MAY PERRY	Jefferson
ALICE ROWENA RICHARDSON	Fairfield
GWILYM RICHARD ROBERTS	Brownville
MURIEL EVELYN ROSS	Sherbrooke, Que., Canada
BARBARA EUNICE SEAVEY	Bangor
MERTON LEVERNE SMITH	Bucksport
LEON CHADBOURNE SPRAGUE, JR.	Presque Isle
VENORA MARY STINCHFIELD, <i>With Highest Distinction</i>	Clinton
MADELINE SUTTER	Presque Isle
MILDRED SUTTER	Presque Isle
PATRICK JOHN TESTA	North New Portland
CHARLES HANNAFORD TOWLE	Portland
KATHERINE KING TRUE	Hope
HILDA ELZIRA WEYMOUTH	Morrill
FRANCES CHARLOTTE WOLVERTON	Bangor

Bachelor of Science in Commercial Education

DORIS MADELINE CURRIER	Oxbow
HILDRED WEYMOUTH FULLER	Brunswick
NORMAN CHARLES HALL	Dalton, Mass.

COLLEGE OF TECHNOLOGY

Bachelor of Science

IN CHEMISTRY

CHARLES LOUIS BLANCHARD.....	Bangor
ROBERT CLYDE FEERO.....	Bath
ALAN FRED KIRKPATRICK, <i>With High Distinction</i>	Old Orchard Beach
BEVERLY ROSS NASON.....	Old Town
NEWTON JENNINGS RODGERS.....	Portland
STANLEY THAYER TITCOMB.....	New Gloucester
JOHN FRANKLIN WHITNEY, <i>With High Distinction</i>	Presque Isle

IN CHEMICAL ENGINEERING

PHILIP AIKEN CORRIGAN.....	Calais
KERMIT RODNEY COTES.....	Derby
ORRIS LEE DEAN, JR.....	Derby
ROBERT THOMAS GRAFFAM.....	Portland

IN CHEMICAL ENGINEERING—PULP AND PAPER OPTION

ROBERT WENDELL DOE, <i>With Highest Distinction</i>	Bingham
ALBERT ORNE DYSON.....	Stoneham, Mass.
CHARLES ROUNDS HUNTOON, JR.....	Rumford
GERALD EUGENE MURPHY.....	Portland

IN CIVIL ENGINEERING

RUEL JOTHAM BLACKWELL.....	Madison
ELROY KENNETH DAY.....	North Berwick
CARLETON DOAK, JR.....	Belfast
WILLIAM ALBERT GLOVER, JR.....	Rockland
PHILIP LAWRENCE GREGORY.....	North Weymouth, Mass.
WILLIAM ROGERS HILTON, <i>With Distinction</i>	Bangor
CHARLES MARSH HOLBROOK.....	Watertown, Mass.
CHESTER WARREN JONES.....	Canaan
WILLIAM THOMAS McDONOUGH.....	Portland
WILLIAM BIRNEY PAGE, <i>With High Distinction</i>	Sebago Lake
LEONARD MELVIN PRATT.....	Greenville Junction
GEORGE ROBERTS SAWYER.....	Old Town
EARLE WILBUR TIBBETTS.....	Hallowell
WILLIAM HOWARD WARD.....	North Uxbridge, Mass.

IN ELECTRICAL ENGINEERING

RICHARD PORTER BOYER, JR.	Newton, Mass.
CARLETON HERMON CLARK	Springfield, Mass.
LOUIS CHARLES COSTRELL, <i>With Highest Distinction</i>	Bangor
THEODORE HUDSON GRANT	Houlton
JOHN PHILIP HARRIMAN	Cherryfield
ROBERT KIRKLAND, JR.	Quincy, Mass.
MARK SHELDON SMITH	Bangor
FREDERIC HASTINGS STETSON, <i>With Distinction</i>	Bangor
THOMAS ARTHUR WILLIAMS	Springfield, Mass.

IN MECHANICAL ENGINEERING

WILFRED ESTEY BETTONEY, <i>With Distinction</i>	Wollaston, Mass.
ROBERT BILLINGS BRAMHALL	Quincy, Mass.
AUSTIN HUNTER CHAMBERLAIN	Mt. Vernon, N. Y.
FRANK HENRY COLLINS	Bar Harbor
KENNETH LESTER CRABTREE	Union
SAMUEL CROWELL, 3RD.	Marblehead, Mass.
JAMES W. CUNNINGHAM	Old Town
CARL FREMONT DAVIS, JR.	Rumford
JAMES FREDERICK DOW	Houlton
HAMILTON HIGGINS DYER, JR.	Kennebunk
RUSSELL WELLS GAMAGE	Christmas Cove
STEPHEN WILLIAM GROVES	East Millinocket
FREDERICK BARKER HARNDEN	Rangeley
DONALD BENJAMIN HASKELL	Portland
CHARLES ST. JOHN HILL	Orono
SHELDON KENNETH HOWARD	North Monmouth
REGINALD PEPPARD MACDONALD	Lynn, Mass.
MELVIN ALMON MCKENZIE	Lewiston
ELWOOD DIMOCK MILLETT	Norway
LAURESS TIBBETTS PARKMAN	Lynn, Mass.
ALEXANDER HINDS RAYE, <i>With Highest Distinction</i>	Eastport
JOHN FRANKLIN RAYE, <i>With Highest Distinction</i>	Eastport
EARLE DUNCAN REED	Augusta
RALPH DURELL SANBORN	Palmer, Mass.
ROBERT LEONARD SHERATON	West Newton, Mass.
CARL RUSSELL TOOTHAKER	Gardiner
THOMAS DAVIS VERRILL	Cumberland Mills
ALGIRD GEORGE YOZUKEVICH, <i>With Distinction</i>	Auburn

ADVANCED DEGREES

Master of Arts

IN ECONOMICS

- BERNARD L. BERZON (B.A., Yeshiva College, 1935) Bangor
The Non-Economic Elements Involved in Strikes

IN EDUCATION

- LORING RALPH ADDITON (B.S., Bates, 1926) Ellsworth
A Follow-Up Study of Graduates of Ellsworth High School
- EVA LUCILLE ALLEY (A.B., Colby, 1925) Calais
Character and Personality Guidance for
Secondary-School Girls
- JOHN CARROLL CALDWELL (B.A., Maine, 1928) Island Falls
Curriculum Proposal for a Civilian Conservation
Corps Camp in Rural Maine
- STANLEY LUTHER CLEMENT (B.S., Colby, 1932) Newport
The Status of Student Participation in Government
in Maine Secondary Schools with Special
Reference to Student Councils
- LIONEL LOUIS DESJARDINS (B.A., Maine, 1934) Old Town
A Study of Rural Teachers in Penobscot County, Maine
- STEPHEN AUGUSTUS GRIFFIN (B.A., Maine, 1922) Livermore Falls
A History of Education in the Town of Livermore, Maine
- EUGENE ALBERT HOFSTED (LL.B., St. Lawrence, 1911;
B.A., Maine, 1928) Poughkeepsie, N. Y.
A Study of Trends in the Costs of Education in
Poughkeepsie, N. Y.
- ABIGAIL LOUISE SARGENT (B.A., Maine, 1932) Sargentville
An Analysis of Latin Textbooks in the
Secondary Schools of Maine
- LUCILLE ESTELLE SMITH (B.A., Maine, 1921) Brewer
Leisure Reading Preferences, A Study of
Windsor Locks High School Students
- FRED AUGUST TARBOX (B.S., Colby, 1923) Calais
A Study of Administrative Practices in
Selected Secondary Schools of Maine
- RUTH ARLINE WRAY (B.A., Maine, 1920) Brewer
The History of Secondary Education in Cumberland and
Sagadahoc Counties in Maine

IN ENGLISH

- FRANCES HARRIET BABB (B.A., Maine, 1930) Thomaston
 Abby Maria Hemenway (1820-1890), Historian,
 Anthologist, and Poet
- MARGARET AUGUSTA HASKELL (B.S., Hamline, 1935) Stonington
 English Poetic Drama from Browning to Stephen Phillips

IN HISTORY

- EDWIN SOLOMON COSTRELL (B.A., Maine, 1938) Bangor
 How Maine Viewed the World War, 1914-1917

IN HISTORY AND GOVERNMENT

- LILLIAN FRANCES LOVEITT (B.A., Maine, 1930) South Portland
 The Social History of Portland, Maine, from 1820 to 1840

IN MATHEMATICS

- MILDRED BERTHA MILBOURN (B.A., Keuka College, 1928) Walton, N. Y.
 Determinants, History, and Developments in
 Transitional Mathematics

Master of Science

IN AGRONOMY

- LESTER HURLIN SMITH (B.S., Maine, 1937) Buxton
 A Botanical Analysis of Differently Fertilized
 Permanent Pasture Paddocks at Highmoor Farm

IN ANIMAL INDUSTRY

- KENNETH WILCOX DIKE (B.S., Vermont, 1936) Bristol, Vt.
 A Study of the Semen of the Bull as Applied to
 Artificial Insemination

IN BACTERIOLOGY

- JOHN SIMMONS GETCHELL (B.A., Maine, 1936) Oakland
 The Study of Microorganisms Associated with the
 Spoilage of Canned Sardines

IN CHEMICAL ENGINEERING

- KHUAT-TAT LIN (B.S., Chaotung University, 1936) Singapore, Asia
 Technology, Economic Balance and Design in
 Rayon Manufacture and Some Other Industries
 (Starch, Nitrocellulose and Plastics)
- HIRAM LEROY SMITH, JR. (B.S., Maine, 1938) Orono
 An Investigation of the Influence of Composition on
 Individual Plate Efficiencies in a Rectifying Column

IN ECONOMICS AND BUSINESS ADMINISTRATION

- HOWARD MAYO GOODWIN (B.S., Maine, 1938) Brewer
 Public Relations in the Public Utilities
- JOSEPH HENRY LEWIS (B.S., Maine, 1938) Springfield
 The Business Corporation as a Factor in the
 Evolution of Ownership

IN EDUCATION

- MARION DUXBURY MAXWELL (B.S., Syracuse, 1917) Willimantic, Conn.
 The Vocational Consequences of Failure to
 Graduate from the Secondary School
- ERVIN SYLVESTER FARRINGTON (B.S., New Hampshire, 1932)
 Windsor, Conn.
 The History of Education in Windsor, Connecticut
- HAZEL FRANCES FURLONG (B.S., Farmington Normal, 1930)
 Gorham, N. H.
 An Investigation of the Home Activities of High-School
 Girls in Lewiston, Maine

IN ELECTRICAL ENGINEERING

- CARL ARTHUR LINDEN (B.S., Tufts, 1936) Everett, Mass.
 Effect of Temperature on the Dielectric Strength
 of Varnished Cambric

IN PHYSICS

- LEROY LEWIS BLACKMER, JR. (B.S., Massachusetts State, 1937)
 North Brookfield, Mass.
 An Electron Microscope of Simple Design

IN PLANT PATHOLOGY

AVERY EDMUND RICH (B.S., Maine, 1937) Charleston
Stem-End Browning of Potato Tubers

IN WILDLIFE CONSERVATION

JAY SCHOOLING GASHWILER (B.S., Oregon State, 1937) Novinger, Mo.
A Waterfowl Survey of the Lincoln, Maine, Area
ROBERT HOLM JOHNSON (B.S., Idaho, 1937) Moscow, Idaho
Life History and Management Studies of Raccoons in Maine

Master of Science in Education

MANNING NERI ARATA (B.S. in Ed., Boston University, 1930) Old Town
A Study of the Organization and Administration of the
Small High Schools in Maine
EDWIN ALLERTON COX (B.S. in Ed., Boston University, 1932)
..... Middleboro, Mass.
Prediction of Success in Ninth Grade Algebra
by Use of Certain Eighth Grade Measures
CHESLEY HAYWOOD HUSSON (B.S. in Ed., State Teachers College,
Salem, 1926) Bangor
A Survey of Commercial Education in Public
Secondary Schools in Maine
ARTHUR WATT (B.S., Northeastern, 1938) Greenfield, Mass.
Effect of Preliminary Study in Biology and Physics on
Subsequent Achievement of Pupils in Chemistry in the
Greenfield High School

CERTIFICATE

IN THE TWO-YEAR COURSE IN AGRICULTURE

ROBERT EDWARD BISHOP Caribou
JOSEPH SEBASTIAN BOULOS Portland
CLEMENT STEVENS DUNNING North Harpswell
RALPH HORATIO ELWELL Brooks
HAROLD EDWARD FARRINGTON, JR. Portland
GERALD WINSTON KIMBALL Bangor
EDWARD CONANT SCOTT Presque Isle
FREDERICK HUDSON SYLVESTER Ashland

GENERAL HONORS

ANNA MIRDZA ANDERSON	<i>Honors</i>
ALMA MAY ARMSTRONG	<i>High Honors</i>
LUCILLE MAE EPSTEIN	<i>High Honors</i>
PRISCILLA HASKELL LIBBY	<i>Highest Honors</i>
MARGARET LOUISE RICE	<i>Honors</i>
EDITH HARRIET STEVENS	<i>High Honors</i>
DAVID WHITE TRAFFORD	<i>Highest Honors</i>
ELAINE ELIZABETH VAN NOSTRAND	<i>Honors</i>
ARTEMUS EDWIN WEATHERBEE	<i>Honors</i>

DEPARTMENTAL HONORS**College of Technology**

IN CHEMISTRY

ALAN FRED KIRKPATRICK
JOHN FRANKLIN WHITNEY

IN CHEMICAL ENGINEERING—PULP AND PAPER OPTION

ROBERT WENDELL DOE

IN CIVIL ENGINEERING

WILLIAM ROGERS HILTON
WILLIAM BIRNEY PAGE

IN ELECTRICAL ENGINEERING

LOUIS CHARLES COSTRELL

IN MECHANICAL ENGINEERING

WILFRED ESTEY BETTONEY
ROBERT BILLINGS BRAMHALL
RUSSELL WELLS GAMAGE
CHARLES ST. JOHN HILL
ALEXANDER HINDS RAYE
JOHN FRANKLIN RAYE
EARLE DUNCAN REED
RALPH DURELL SANBORN
THOMAS DAVIS VERRILL
ALGIRD GEORGE YOZUKEVICH

**The following received commissions as Second Lieutenant
Officers' Reserve Corps**

INFANTRY

BERTRAM WENDELL AMES
ROBERT BILLINGS BRAMHALL
FRANK HENRY COLLINS
WILLIAM HENRY CRAIG
SAMUEL CROWELL, 3RD
ALBERT FRIEDMAN
MILTON SYLVESTER JELLISON
ROBERT KIRKLAND, JR.
LEON WALTER KONECKI
EDWARD RANKIN LADD
FRANCIS WARD LOVERING
REGINALD PEPPARD MACDONALD
MELVIN ALMON MCKENZIE
ALFRED PARKER MALLET
RICHARD ANDERSON MONROE
LAURESS TIBBETTS PARKMAN
RICHARD QUIGLEY
ALEXANDER HINDS RAYE
JOHN FRANKLIN RAYE
EARLE DUNCAN REED
BERNARD CLARENCE ROBBINS
HARLAND GLIDDEN TURNER

CHEMICAL WARFARE SERVICE

CHARLES ROUNDS HUNTOON, JR.

HONORARY DEGREES

James Phinney Baxter, 3rd, Doctor of Laws
Gladys Hasty Carroll, Doctor of Letters
Raymond Henry Fogler, Doctor of Laws
Lucien Percy Libby, Master of Arts
Erlon Lincoln Newdick, Master of Science
Lowell Jacob Reed, Doctor of Science
Paul Taylor White, Doctor of Music

Catalog of Students

Major subjects are indicated as follows: Ae. Agricultural Education, Ag. Agronomy, Agr. Agriculture, Agr. Eng. Agricultural Engineering, An. Animal Husbandry, Ba. Business Administration, Bc. Biological Chemistry, Bl. Biology, Bt. Botany, By. Bacteriology, Ch. Chemistry, Ch.Eng. Chemical Engineering, Ce. Civil Engineering, Cl. Classics, Dh. Dairy Husbandry, Di. Dairy Industry, Dr. Drama, Dt. Dairy Technology, Ed. Education, Ee. Electrical Engineering, Eh. English, En. Entomology, Eng. Engineering (Course not specified), Eng. Ps. Engineering Physics, Es. Economics, Fm. Agricultural Economics and Farm Management, Fn. Foods and Nutrition, Fr. French, Fy. Forestry, Ge. General Engineering, Gm. German, Gt. Government, Hy. History, He. Home Economics, Ht. Horticulture, Jn. Journalism, Lt. Latin, L.A. & N. Liberal Arts and Nursing, Mc. Music, Me. Mechanical Engineering, Ms. Mathematics, Pa. Chemical Engineering—Pulp and Paper Division, Pc. Physiological Chemistry, Pg. Physiology, Ph. Poultry Husbandry, Pl. Philosophy, Pp. Plant Pathology, Ps. Physics, Py. Psychology, Rl. Romance Languages, Sy. Sociology, Sp. Spanish, Sh. Speech, Wc. Wildlife Conservation, Zo. Zoology. Chemistry in the College of Arts and Sciences is indicated by Ch.A.

GRADUATE STUDENTS

- | | | |
|---------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------|
| Akeley, Robert Vinton, B.S., Bt. & En.
Maine, 1937 | <i>Presque Isle</i> | Φ H K House |
| Anderson, Frank Abel, A.A., B.S.,
Ch.Eng.
Junior College of Connecticut, 1934;
University of Southern California, 1936 | <i>Bridgeport, Conn.</i> | 43 Peters Street |
| Barnes, Ronald Eugene, B.S., Ag.
Maine, 1938 | <i>Fort Fairfield</i> | 11 Beech Street |
| Boyer, Azalea Ladner, B.A., Eh.
Maine, 1938 | <i>Kittery Point</i> | The Elms |
| Bradford, Robert Bruce, B.S., Mc.
Maine, 1934 | <i>Orono</i> | 40 Penobscot Street |
| Brockway, Philip Judd, B.A., Eh.
Maine, 1931 | <i>Orono</i> | 90 Forest Avenue |

- Cail, Robert Small, B.A. *Portland* 53 North Main Street
Maine, 1939
- Carter, Nelson Bradford, B.S., Ch. *Brewer* 12 Brimmer Street, Brewer
Maine, 1938
- Crandon, Harry Drew, B.S., Ch. *Stillwater*
Maine, 1929 Bennoch Road, Stillwater
- Daley, Alice Margaret, B.A., Eh. *Bangor* 187 Maple Street, Bangor
Mount St. Vincent, 1939
- Durick, Rosemary Beatrice, B.A., Zo. *Newcastle, N. B., Canada*
New Brunswick, 1938 3 Riverdale
- Dusenbury, Margaret Winifred Loesch, *Orono* 74 North Main Street
B.S., Eh.
Wisconsin, 1937
- Ellis, Reed Hobart, Jr., A.B., Ps. *Rangeley*
Bowdoin, 1939 11 South Brunswick Street,
Old Town
- Ennis, William Brice, Jr., B.S., Bl. *Monmouth* Park Street
Tennessee, 1939
- Epstein, Lucille, B.A., Sy. *Bangor* 298 Essex Street, Bangor
Maine, 1939
- Folsom, Marie Theresa, B.S., Fn. *Orono* 63 Forest Avenue
Maine, 1939
- Forde, Henrietta Elizabeth, A.B., Eh. *Cookshire, Que., Canada*
Mount Allison, 1939 36 College Road
- Fry, James Howard, B.S., Bc. *Harrisburg, Pa.* 14 Middle Street
Pennsylvania State, 1938
- Getchell, Amasa Stanley, B.S., Ch. *Bangor* 267 Forest Avenue, Bangor
Maine, 1938
- Gillett, Gordon Edward, A.B., Hy. *Old Town*
Bowdoin, 1934 11 South Brunswick Street,
Old Town
- Gillis, Hugh Allan, B.S. in Ed., Es. *Lincoln* Lincoln
Maine, 1939
- Goodwin, Harry Allan, A.B., Wc. *Manchester, N. H.* College Road
St. Anselm's, 1939
- Gorham, Paul Raymond, B.A., Bt. & En. *Fredericton, N. B., Canada*
New Brunswick, 1938 37 Pine Street

- Grant, Theodore Hudson, B.S., Ee. *Orono* 47½ Mill Street
Maine, 1939
- Harding, Theodore Parker, B.A., Zo. *Cambridge, Mass.* A T Ω House
Maine, 1938
- Harriman, John Philip, B.S., Ee. *Cherryfield* Σ X House
Maine, 1939
- Hendrickson, Karl Newcomb, B.S., Ce. *Brewer* 43 Main Street
Maine, 1938
- Holmes, Mildred, A.B., B.S., Ed. *Eastport* R.F.D. #7, Bangor
Colby, 1915; Simmons, 1918
- Kalil, John Hanna, B.S., Ce. *Manchester, N. H.* 43 Main Street
New Hampshire, 1939
- Kandel, Herbert Jay, B.S., Ch.Eng. *Norfolk, Va.,* 4 Myrtle Street
Virginia Military Institute, 1939
- Kelly, Donald Hoyt, B.S., Ch. *Newton, N. H.* 43 Peters Street
New Hampshire, 1938
- Kirkpatrick, Alan Fred, B.S., Ch. *Old Orchard Beach*
Maine, 1939 430 College Road
- Kittams, Walter Howeth, B.S., Wc. *Great Falls, Mont.* 37 Pine Street
Utah State Agricultural College, 1939
- Kroll, Henry Michael, A.B., Zo. *New York, N. Y.*
Clark, 1938 53 North Main Street
- Lamoreau, Jeanette, B.A., Ms. *Presque Isle* South Hall
Maine, 1939
- Landon, Melvin Voorhees, A.B., Ps. *Richmond, Ind.* 60 Park Street
Williams, 1938
- Lekberg, Howard Parker, B.S., Me. *Orono* 43 Pine Street
Worcester Polytechnic Institute, 1932
- Libby, Priscilla Haskell, B.A., Eh. *Orono* 51 North Main Street
Maine, 1939
- McLaughlin, Gustavus Abbott, *Dyer Brook* Φ H K House
B.S., Fm.
Maine, 1937
- Maass, Herman Martin, B.S., Ch.Eng. *Spokane, Wash.* 26 Peters Street
State College of Washington, 1939
- Mallet, Alfred Parker, B.A., Ms. *South Portland* Φ Γ Δ House
Maine, 1939

- Mansfield, Agnes Lucy, A.B., Zo. *New Haven, Conn.* 3 Riverdale
Smith, 1938
- Marston, Merwin Abbott, B.S., Wc. *East Waterford* Φ M Δ House
Maine, 1939
- Montgomery, Robert Dudley, B.S., Wc. *St. Paul, Minn.*
Minnesota, 1937 53 North Main Street
- Mundt, John Orvin, B.S., By. *Watertown, Wis.* 25 Myrtle Street
Wisconsin, 1938
- Nason, Beverly Ross, B.S., Ch.Eng. *Old Town*
Maine, 1939 291 South Main Street,
Old Town
- Ogden, Edith Bolan, B.A., Bt. & En. *Orono* 36 Main Street
Maine, 1933
- Oleson, Frederick Barbour, A.B., Ps. *Orono* 2 Myrtle Street
Colby, 1938
- Osborne, John Clark, B.S., An. *Independence, Va.* 25 Myrtle Street
Virginia Polytechnic Institute, 1939
- Osgood, Carl Chapin, B.S., Me. *Ellsworth* 7 Kell Street
Maine, 1938
- Peacock, Norman Morrow, B.S., Ch. *St. John, N. B., Canada*
New Brunswick, 1939 430 College Road
- Perkins, Philip Charles, B.S. in Ed., *Castine* 24 Pierce Street
Ed.
Maine, 1933
- Philbrook, George Edwin, B.S., Ch. *Tenafly, N. J.* 43 Peters Street
Maine, 1938
- Pope, Donald Bartlett, B.S., Di. *Peoria, Ill.* 25 Myrtle Street
University of Illinois, 1938
- Roberts, Gwilym Richard, B.S. in Ed., *Brownville* 25 Grove Street
Hy.
Maine, 1939
- Rowe, Mary Ellen, A.B., Ed. *West Minot* 41 Forest Avenue
Bates, 1935
- Sanderlin, Owenita Harrah, B.A., Eh. *Orono* 36 Main Street
American University, 1937
- Saveraid, Joye Harold, B.S., Wc. *Huxley, Iowa*
Iowa State, 1938 53 North Main Street

Sawyer, Clayton Leonard, B.A., Ch. Maine, 1938	<i>Orono</i>	Park Street
Spangler, Juliet Miller, A.B., Zo. Wheaton, 1939	<i>Bangor</i>	69 Howard Street, Bangor
Stacy, Joan Harriet, A.B., Zo. Smith, 1937	<i>Orono</i>	144 College Road
Sweatt, John Henry, B.A., Ed. Maine, 1930	<i>Orono</i>	48 Pine Street
Topping, Francis Lawrence, B.A., Zo. Maine, 1935	<i>Milbridge</i>	38 Pierce Street
Webb, Cynthia, B.A., Eh. Skidmore, 1937	<i>Brunswick</i>	20 Harthorn Street, Bangor
Wenger, Karl Frederick, B.S., Fy. Maine, 1939	<i>East Longmeadow, Mass.</i>	17 Margin Street
Wing, Merle Wesley, B.S., Zo. Maine, 1939	<i>Old Town</i>	35 Bradbury Street, Old Town
Woodbury, Harold Mace, B.S., Ed. Maine, 1937	<i>Orono</i>	7 Park Lane
Ziemer, Charles Walter, B.S., Ch. Utah State Agricultural College, 1938	<i>Ogden, Utah</i>	18 Penobscot Street

SENIORS

Adams, Edna Pearl, Py.	<i>South Brewer</i>	Balentine Hall
Adams, Norris Stanwood, Es.	<i>Portland</i>	102 Oak Hall
Adkins, Harlow Dailey, Me.	<i>Norway</i>	A T Ω House
Akeley, Richard Warren, Fm.	<i>Presque Isle</i>	Φ H K House
Albee, Burton Hathaway, Me.	<i>West Roxbury, Mass.</i>	Σ X House
Albert, Paul Aurele, Bc.	<i>Presque Isle</i>	45 Mill Street
Alpert, Myer, Hy. & Gt.	<i>Bangor</i>	137 State Street, Bangor
Andrews, Roger Stover, Es. & Gt.	<i>Augusta</i>	Σ X House
Arbo, Ervin Alexander, Ed.	<i>Brownville</i>	25 Grove Street
Armstrong, Elizabeth Rae, He.	<i>Vanceboro</i>	South Hall
Arthur, Garfield Manning, Ee.	<i>Fitchburg, Mass.</i>	B Θ Π House
Ashby, James Hanlon, Fm.	<i>Caribou</i>	Φ H K House
Atwood, Robert Dixon, Hy.	<i>Portland</i>	Σ X House

Bacon, Earl Grant, Me.	Oakland	25 Grove Street
Bahrt, Albert Edgar, Ge.	North Islesboro	Σ A E House
Bannigan, Marguerite Connor, Eh.	Waterville	Balentine Hall
Barrell, William Dwight, Fm.	Turner	Σ A E House
Barstow, Virginia Lucille, Eh.	Brewer	
	52 Chamberlain Street, Brewer	
Beardsell, Wallace Ames, Ch.Eng.	Weston, Mass.	102 H. H. Hall
Beckerman, Frank Maurice, Es.	Brookline, Mass.	T E Φ House
Belknap, Russell Elliott, Me.	Norfolk, Mass.	B Θ Π House
Berce, Woodbury Lee, Jr., Fm.	Washburn	Φ H K House
Bessey, Earle Dutton, Jr., Fy.	Brooks	Φ H K House
Bickford, Priscilla Hope, Sy.	Portland	Balentine Hall
Bither, Donald Elmer, Ce.	Linneus	41 Mill Street
Blake, Howard Francis, Me.	Portland	Θ X House
Blake, Janet Emily, He.	LaGrange	40 College Road
Blom, Carl Johansen, Es.	Portland	
	443 Hammond Street, Bangor	
Bolan, John Everett, Ba.	Winterport	36 Main Street
Bonney, Robert Harlan, Ge.	Portland	University Cabin
Bonville, Jeannette Louise, Fr.	Presque Isle	Colvin Hall
Bouchard, Albert James, Ag.	Caribou	151 Park Street
Bouchard, Kenneth Joseph, Fm.	Caribou	Δ T Δ House
Bower, William Sumner, Me.	Auburn	Δ T Δ House
Brann, Edward Kenneth, Fy.	Plainfield, N. J.	Δ T Δ House
Breton, Leon Joseph, Ch.Eng.	Rumford	106 H. H. Hall
Bridges, Alton George, Ag.	Mars Hill	Φ H K House
Bronsdon, Harold Clark, Fy.	Newton Centre, Mass.	Λ X A House
Brooks, William King, Ht.	Portland	22 Pond Street
Brown, Charles Donald, Ed.	Eastport	56 Park Street
Brown, Phyllis Esther, Sy. & Py.	Ocean Park	Balentine Hall
Browne, Clark Wainwright, Ee.	North Abington, Mass.	
	24 Pierce Street	
Bucklin, Fred Robert, Wc.	South Warren	Φ K Σ House
Bull, Floyd Leland, Ag.	Presque Isle	Φ H K House
Bullard, Edward Chesseldon, Ba.	Glens Falls, N. Y.	A T Ω House
Burke, Gerard James, Fy.	Concord, Mass.	Σ X House
Burleigh, Robert Wentworth, Me.	Boothbay Harbor	A T Ω House
Burr, Kenneth George, Ht.	Kennebunk	Φ H K House
Buss, Frank Joseph, Fy.	Central Falls, R. I.	Λ X A House
Butler, Lyle Alton, Jr., Ch.Eng.	Gardiner	Δ T Δ House
Byram, Harry Melcher, Ee.	Freeport	Σ A E House

Calderwood, Carolyn Frances, He.	<i>Vinalhaven</i>	North Hall
Calvo, Raymond John, Ht.	<i>New York, N. Y.</i>	22 Pond Street
Cameron, John Robert, Ce.	<i>Broadalbin, N. Y.</i>	Δ X Δ House
Caouette, Daniel Joseph, Hy. & Gt.	<i>Skowhegan</i>	2 Summer Street
Carlisle, John Davis, Es.	<i>Bangor</i>	Φ Γ Δ House
Carr, Douglas Harold, Me.	<i>Dexter</i>	Δ T Ω House
Carter, Gordon Palmer, Ch.Eng.	<i>Brewer</i>	12 Brimmer Street, Brewer
Chandler, Theodore Pinkham, Pa.	<i>South Paris</i>	25 Grove Street
Chandler, William Heywood, Ge.	<i>Portland</i>	Σ X House
Charpentier, Allyn Eugene, Me.	<i>Flushing, L. I., N. Y.</i>	Σ N House
Checchi, Vincent Victor, Es.	<i>Calais</i>	Θ X House
Citrin, Murray Maurice, Py.	<i>Portland</i>	35 Grove Street
Clark, Eldon Ralph, Fy.	<i>Dennysville</i>	Φ M Δ House
Clark, Sumner Starrett, Hy.	<i>Cape Elizabeth</i>	University Cabin
Clement, James Donald, Jr., Zo.	<i>Bangor</i>	77 Essex Street, Bangor
Clough, Charles Henry, Jr., Ba.	<i>Blue Hill</i>	80 Pine Street
Coffee, Marjorie Eleanor, He.	<i>Clayville, N. Y.</i>	Balentine Hall
Coffin, Robert Tristram, Es.	<i>Brunswick</i>	Δ T Ω House
Cogswell, Fred Melville, Jr., Hy. & Gt.	<i>Danvers, Mass.</i>	Φ Γ Δ House
Cohen, Bernard, Me.	<i>Biddeford</i>	T E Φ House
Connolly, James Joseph, Ba.	<i>Portland</i>	Θ X House
Cook, Edward Jay, Jr., An.	<i>Rutland, Vt.</i>	Δ T Ω House
Cook, William Sherwood, Me.	<i>Tenants Harbor</i>	Φ M Δ House
Cooper, Mary France, He.	<i>Beverly Farms, Mass.</i>	
		Balentine Hall
Cormier, Everett Lawrence, Ed.	<i>Van Buren</i>	21 A Mill Street
Cotting, Roger, Es.	<i>Newton, Mass.</i>	B Θ Π House
Crabtree, Irvia Hinckley, Py.	<i>Blue Hill</i>	15 Pierce Street
Craig, Robert Elmer, Ag.	<i>Westfield</i>	
		17 Boynton Street, Bangor
Cramer, Francis Leroy, Ce.	<i>Bristol</i>	89 State Street, Brewer
Crocker, Barbara Ellen, Ed.	<i>Fort Kent</i>	Colvin Hall
Crockett, Russell Edward, Ed.	<i>Houlton</i>	Δ T Ω House
Cullinan, Robert Vincent, Zo.	<i>South Portland</i>	Φ Γ Δ House
Curran, Mary Cecilia, He.	<i>Lewiston</i>	Balentine Hall
Currier, Stuart Lavers, Fy.	<i>Sandwich, Mass.</i>	Σ N House
Curtis, Philip Edward, Fm.	<i>Caribou</i>	112 Oak Hall
Cuzner, Wilbur Leonard, Ba.	<i>Belfast</i>	Φ K Σ House
Danforth, Norman Lewis, Jr., Ee.	<i>Bucksport</i>	Δ X Δ House
Darveau, George Francis, Gt.	<i>Orono</i>	38 Middle Street

Davis, Edward Everett, Ce.
 Day, Dorothy, Hy. & Gt.
 Deering, Marjorie Bowman, He.
 Dennis, Clarence Elmer, Ce.
 Dequine, John Frederick, Wc.
 Derry, John Harry, Ch.Eng.
 Desjardins, Ruth Ursula, He.

DeWitt, Frank William, An.
 Digby, George Tabor, Fy.
 Dimick, William Carl, Wc.
 Donovan, Alice Ann, Zo.
 Dow, Dorrice Helen, He.
 Dow, Loren Woodbury, Sy.

Duby, Carleton Paul, Fy.
 Duplissee, Kathleen Esther, Rl.

Dyer, Harold Jacobsen, Wc.
 Dyer, Jane, Py.
 Dyer, Richard Charles, Fm.
 Dyke, Ronald Arno, Me.

Eaton, Wendell Gordon, Ed.
 Ebbeson, Helma Katrina, Hy.
 Ela, Benjamin Walter, Jr., Ch.Eng.
 Ellis, Ernest, Hy.
 Erlick, Ruth Frances, Ed.
 Eveleth, Lawrence Nathaniel, Ag.

Fairchild, Marion Elizabeth, Ed.
 Farrar, Herbert Wendell, Ee.
 Fay, Norman Frederic, Ba.
 Fessenden, Ruth Natalie, Py, & Sy.
 Files, Maynard Whitney, Fy.
 Finks, Marcia Jannette, He.
 Finnigan, William Joseph, Ba.
 FitzGerald, Marion Hannah, Eh.
 FitzPatrick, James Joseph, Jr., Ba.

Burnham 18 Oak Street
 Orono 203 Main Street
 Orono 160 College Road
 Rumford Φ K Σ House
 Long Branch, N. J. A T Ω House
 Rumford K Σ House
 Old Town

122 South Brunswick Street,
 Old Town

Sherman Mills 25 Grove Street
 Hallandale, Fla. Φ Γ Δ House
 New Haven, Conn. Δ T Δ House
 Houlton Colvin Hall
 Bangor 267 Pine Street, Bangor
 Bangor

120 West Broadway, Bangor

Bradley Bradley
 Old Town

156 Stillwater Avenue,
 Old Town

Gorham Σ A E House
 Framingham, Mass. Balentine Hall
 Gorham Σ A E House
 Livermore Falls Σ A E House

Dexter 25 Grove Street
 Bangor South Hall
 North Anson 83 Park Street
 Orono 29 Park Street
 Portland The Elms
 Auburn 26 Island Avenue

Portland The Elms
 Hingham, Mass. A T Ω House
 Needham, Mass. K Σ House
 Portland Colvin Hall
 Portland Φ K Σ House
 Portland Balentine Hall
 Portland 151 Park Street
 Newburgh, N. Y. Balentine Hall
 Marblehead, Mass. 112 H. H. Hall

Flanagan, Eileen Mary, He.
Freeman, Josephine Anne, Ch.A.

Bangor 207 Maple Street, Bangor
Portland South Hall

Gartley, Myron Stewart, Ag.
Gates, Stanley Richard, An.
Gavett, Andrew Willard, Es.
Gerrish, Harold Aldrich, Ps.
Gilpatrick, Arlo Eugene, Me.
Glasser, Joseph Herman, Es.
Gleason, Lawrence John, Ce.
Glines, Ella Mabel, Ed.
Gloden, Felix Anthony, Ed.
Gogan, Patricia Kathryn, Rl.
Golden, Francis Patrick, Fy.

Presque Isle Φ H K House
South Paris A Γ P House
Dennysville 14 Park Street
Lisbon Falls A T Ω House
Mars Hill Φ M Δ House
Roxbury, Mass. 14 Park Street
Bangor 95 Otis Street, Bangor
Unity 3 Riverdale
Mexico 25 Grove Street
Orono R.F.D. #7, Bangor
Hampden Highlands

Golden, Miriam Natalie, Sy.
Goldsmith, Richard, Ba.
Goodrich, William George, Fy.
Gotlieb, Peter, Hy. & Gt.
Grant, Ralph Tozier, Ag.
Gray, Douglas Elliot, Fy.
Gray, Gooden, Me.
Grimmer, Stewart William, Ba.
Gross, Stephen Keith, Me.

Hampden Highlands
Bangor 326 State Street, Bangor
Salem, Mass. Φ M Δ House
Morrisville, Vt. Park Street
Bangor 121 Grove Street, Bangor
Presque Isle 45 Mill Street
Warren Φ K Σ House
South Brooksville 29 Pond Street
Portland Φ Γ Δ House
Camden Φ K Σ House

Hall, Marguarite Lucille, He.
Halliday, Harry Horn, Fy.
Hamilton, Robert John, Me.
Hamilton, William Douglas Greene, Fy.
Hanley, Walter Edward, Fm.
Hannan, Hazen Betford, Ch.Eng.
Harmon, James Arnold, Ed.
Harrington, Joseph Leonard, Ag.
Harris, John Norman, Ce.
Harris, Louis Tolman, Fm.
Hart, Ann Arlene, He.
Hartwell, Henry Lloyd, An.
Hatch, William Henry, Fy.
Hauck, Margaret Ernestine, Eh.
Hawes, Emil Franklin, Ce.
Heald, Erwin Lovett, Ag.

Orono 24 Crosby Street
Newtonville, Mass. 26 Peters Street
Madison 15 Park Street
White Plains, N. Y. Φ H K House
Orono 48 Mill Street
Liberty 25 Grove Street
Presque Isle 88 Park Street
Patten 308 H. H. Hall
Anson Φ M Δ House
Milo K Σ House
South Hope Balentine Hall
Stetson Farm Boarding House
Dark Harbor University Cabin
Orono Campus
Bangor 32 Royal Road, Bangor
Lincolnville 83 Park Street

Hebel, Richard Edwin, Ce.
 Henderson, Arthur Alexander, Ed.
 Hennessy, Louis Daniel, Ch.Eng.
 Heughan, Herbert Milton, Ms.
 Higgins, Harold Donham, Ce.
 Higgins, Raymond Dyer, Zo.
 Hinkley, Philip Joseph, Ch.Eng.
 Holland, Stanley Robert, Me.
 Holmes, Jane, Zo.

Holmes, Richard, Fy.
 Holt, Fred Edward, Fy.
 Howard, Clayton Wendell, Fm.

Howard, Preston Oliver, Me.
 Hoy, Wayne Victor, Ed.
 Humphries, Benjamin Shattuck, Ed.
 Hunt, Orman Pearl, Dt.
 Hunter, James Harold, Me.
 Hurley, Edith Mae, Ms.
 Hutchinson, Philip Allan, Me.

Jackman, Hope Adelaide, Ed.
 Jackman, Mary Sylvia, He.
 Jellison, Howard Lozier, Ed.
 Jellison, Pauline Winifred, Eh.
 Johnson, Elspeth Burnett, He.

Johnson, Joseph Myron, Fm.
 Johnson, Paul Leslie, Fm.
 Johnson, Stanley Fairfield, Fm.
 Johnston, Frederick John, Ba.
 Johnston, Raymond Randall, Ba.
 Jones, Barbara Nancy Adams, Pl.
 Jones, Franklyn Lewis, Fy.
 Jones, Mary Elizabeth, He.
 Jordan, John Haskell, Fm.

Kane, Thomas Franklin, Jr., Zo.
 Kelley, Daniel Lenhart, Ed.
 Kennedy, Mary Charlotte, He.
 Kenney, Howard Marshall, Ee.

Brewer 178 Parker Street, Brewer
 Anson 25 Grove Street
 Brewer 18 High Street, Brewer
 Bangor 41 Mill Street
 Lewiston Σ A E House
 Dennysville Φ K Σ House
 Cumberland Mills 72 Main Street
 Portland Σ X House
 West Winfield, N. Y.

Balentine Hall
 Northeast Harbor Princeton
 Oxford 64 Hill Street
 North Monmouth

395 College Road
 Rumford Φ Γ Δ House
 Sherman Mills 45 Mill Street
 Perry 56 Park Street
 Clinton A Γ P House
 West Roxbury, Mass. Θ X House
 Skowhegan Balentine Hall
 West Buxton 7 Park Street

Orono College Road
 Mount Vernon South Hall
 Surry 5 Forest Avenue
 Bangor 341 French Street, Bangor
 Gloucester, Mass.

Home Management House
 Harrison 25 Grove Street
 Brooks 33 Peters Street
 Brunswick 395 College Road
 Bangor Φ Γ Δ House
 Fort Fairfield Φ H K House
 Orono 68 Main Street
 South Portland Φ Γ Δ House
 Sumner Balentine Hall
 Fryeburg A T Ω House

Portland 18 Oak Street
 Eastport 56 Park Street
 Monmouth South Hall
 Millinocket Φ M Δ House

Kent, Rachel Woodman, He.
 Keyes, Allston Prentice, Ch.Eng.
 Kimball, Vernon Lord, Ce.
 Knobler, Abraham, Pa.
 Knowlton, Charles Wentworth, Sy.
 Knowlton, Robert Canfield, Es.
 Kruse, Elizabeth Marie, He.

LaBarge, Bernard Aloysius, Es.
 Ladd, Chester Morris, Fy.
 Laffin, Catherine Scribner, He.
 Lancaster, Helengrace, He.

Lane, Arnold Clifford, Fm.
 Lanigan, Edwin James, Es.
 Lawrence, Estelle Merrill, He.
 Lawry, Edward Heath, Wc.
 Leafe, Russell Paul, Me.

Leavitt, Ruth Madeline, Py.

Levis, Robert Harry, Ge.
 Libbey, Elizabeth, He.
 Libby, Stanley Morse, Ed.
 Lindell, Wiljo Maurice, Ch.Eng.
 Lindsay, Andrew Gowen, Ba.
 Linscott, Stanley Paul, Wc.
 Littlefield, Joseph Rackliff, Ce.
 Locke, Boynton, Jr., Ms.
 Lord, Edwin Moor, Zo.
 Loring, Malcolm Stevens, Fm.
 Lovering, Francis Ward, Py.

McCain, James Stanley, Ba.
 McClelland, Ruth Winifred, He.
 MacDonald, Robert William, Me.
 McDowell, Conrad Wayman, Eh.
 McEachern, Carl Alexander, Ce.
 MacGillivray, John Oliver, Fy.

Bangor Balentine Hall
 Washington, D. C. B Θ II House
 Sangerville College Road
 Jamaica, N. Y. 151 Park Street
 Carmel Carmel
 Westbrook A X A House
 Bangor The Maples

Bucksport Φ Γ Δ House
 Waterville 25 Grove Street
 Ellsworth Balentine Hall
 Old Town

154 Stillwater Avenue,
 Old Town

Brewer K Σ House
 Belmont, Mass. K Σ House
 Gray Balentine Hall
 Fairfield B Θ II House
 Kennebunkport

123 Middle Street, Old Town
 Old Town

83 North Fourth Street,
 Old Town

Alton, Ill. 4 Summer Street
 Milford, Mass. Balentine Hall
 Chebeague Island 3 Park Street
 Warren University Cabin
 North Monmouth 114 Park Street
 Cornish Φ M Δ House
 Brooks University Cabin
 Boothbay Harbor Σ N House
 Skowhegan Σ X House
 Portland Men's Infirmary
 Tyngsboro, Mass. 1 Spencer Lane

Houlton Sigma Nu House
 Clinton, Conn. Balentine Hall
 York Village Σ X House
 Portland Δ T Δ House
 Greenville Junction Σ A E House
 Newton Lower Falls, Mass.

K Σ House

McLaughlin, Eugene Lawrence, Fm.	<i>Limestone</i>	Δ T Δ House
McNeil, Warren Rupert, Fy.	<i>Bath</i>	Φ H K House
McPhee, Lawrence Louis, Me.	<i>Old Town</i>	
	42 Union Street, Old Town	
McPheters, Leonard Lamont, Me.	<i>Bangor</i>	15 Savage Street, Bangor
McPheters, Linwood Snider, Me.	<i>Bangor</i>	15 Savage Street, Bangor
Maasen, John Henry, Jr., Wc.	<i>Scarsdale, N. Y.</i>	Φ K Σ House
Maddocks, Asenath Lucille, Ed.	<i>Brewer</i>	7 Harlow Street, Brewer
Maines, John Thornton, Fy.	<i>Hartford, Conn.</i>	B Θ Π House
Maling, Helen Louisa, Py.	<i>Kennebunkport</i>	Balentine Hall
Mann, Ivie Wendell, Ed.	<i>South Brewer</i>	
	Spring Street, Stillwater	
Marks, Phyllis Ruth, Eh.	<i>Brookline, Mass.</i>	Colvin Hall
Marsh, John Ambrose, Fy.	<i>Bridgeport, Conn.</i>	Φ H K House
Marshall, Donald McCutcheon, Me.	<i>Bath</i>	Σ N House
Martin, Albert Denis, Ed.	<i>Orono</i>	104 Mill Street
Martin, Frank Samuel, Me.	<i>Bath</i>	Φ M Δ House
Martin, Oscar Romuald, Ae.	<i>Frenchville</i>	104 Mill Street
Maxwell, Margaret, Sp.	<i>Bangor</i>	Colvin Hall
Mercier, Woodrow Abel, Ed.	<i>Rumford</i>	25 Grove Street
Merrill, Fred Patterson, Ce.	<i>Bangor</i>	254 Elm Street, Bangor
Merrill, Robert Stanton, Wc.	<i>Gray</i>	Σ X House
Milliken, Wendall Seavey, Fm.	<i>Portland</i>	12½ Pleasant Street
Mitchell, Nahum Wentworth, Jr., Ch.Eng.	<i>West Newfield</i>	Φ Γ Δ House
Moore, Donald Horatio, Wc.	<i>Beverly, Mass.</i>	Δ T Δ House
Moore, Eugene Lincoln, Fy.	<i>Houlton</i>	Φ H K House
Morin, Paul Eugene, Es. & Gt.	<i>Cranston, R. I.</i>	Σ X House
Morneault, Adrian Lucien, Ag.	<i>Lille</i>	21A Mill Street
Morong, Raymond Lee, Ee.	<i>Madison</i>	Σ N House
Morton, Richard Gwynne, Me.	<i>Farmington</i>	Σ A E House
Mulholland, Elizabeth Catherine, Eh.	<i>Lubec</i>	Balentine Hall
Murphy, Muriel Margaret, He.	<i>Fort Fairfield</i>	Balentine Hall
Murphy, Robert Elwood, Zo.	<i>Oakfield</i>	Φ H K House
Nelson, Harley Cummings, Ch.Eng.	<i>Reading, Mass.</i>	Δ T Δ House
Nelson, Harry Servatus, Jr., Me.	<i>North Vassalboro</i>	Φ M Δ House
Nickerson, Amorette Bryer, Ed.	<i>Winterport</i>	23 Park Street
O'Brien, Oric Osman, Fy.	<i>Brooks</i>	7 Kell Street
O'Connell, Harold Joseph, Fr. & Lt.	<i>Bangor</i>	40 Fern Street, Bangor
Oleson, Charlotte Elizabeth, Pl.	<i>Orono</i>	2 Myrtle Street

Palmer, Raymond Jordan, Eh.

Pangburn, Alvah Edward, Ag.

Patterson, Paul Keith, Fy.

Peabody, Herbert Stanley, Fm.

Pease, Virginia Frances, Hy. & Gt.

Peaslee, Margaret Hall, He.

Peirce, Charles Albert, Jr., Hy. & Gt.

Perry, Anne Elizabeth, Ms.

Perry, Clarence Henry Merrill, Ed.

Phair, Dorothy Elizabeth, He.

Phelps, Mary Pond, Py.

Pierce, Earle Sidney, Fm.

Pierson, Alvalene May, Zo.

Pillsbury, John Wallace, Ed.

Pipes, Ralph Lawrence, Zo.

Plummer, John Flagg, Ce.

Potter, Walter Edwin, Ph.

Powell, Stephen Edwin, Wc.

Pratt, Clarence LeRoy, Es. & Gt.

Pratt, John Harold, Fy.

Pray, Lucie Adelaide, Zo.

Pryor, Henry Paul, Ch.Eng.

Rader, William August, Ce.

Rand, John Albert, Ph.

Ray, Conrad Alan, Ch.Eng.

Raymond, Roy Claude, Me.

Redman, Annette Youngs, He.

Reed, Carolyn Pennell, He.

Reed, Cecil Edward, Me.

Reed, John Preston, Ht.

Reynolds, Ralph Milton, Ce.

Rhoda, Frances Eleanor, He.

Rich, Edwin Stanton, Ee.

Rich, Nathan Harold, Me.

Richard, Octave Francis, Ce.

Richardson, Arthur William, Me.

Rideout, Linwood Browne, Fy.

West Roxbury, Mass.

72 Main Street

Caribou Φ H K House

Willimantic Park Street

Houlton K Σ House

Wiscasset North Hall

Concord, N. H. Balentine Hall

Bangor K Σ House

Bangor

333 Hammond Street, Bangor

Wayne Kell Street

Limestone Balentine Hall

Foxboro, Mass. Balentine Hall

Old Town Σ N House

Tenant's Harbor South Hall

Benton Station 18 Oak Street

Houlton Σ N House

Bangor 41 Forest Avenue

Sabattus A T P House

Orono 69 Forest Avenue

Bangor R.F.D. #2, Bangor

Oxford Δ T Δ House

Melrose, Mass. Balentine Hall

Union City, Conn. Σ X House

Westfield, N. J. Φ H K House

North Anson A T P House

Canton Δ T Δ House

Mars Hill Φ K Σ House

Bangor 225 Center Street, Bangor

Portland Balentine Hall

Southwest Harbor Δ T Δ House

South Brewer

R.F.D. #8, South Brewer

Orono 5 Forest Avenue

Milo Balentine Hall

Charleston 25 Grove Street

Charleston Stillwater

Bangor 170 Garland Street, Bangor

Poland Φ T Δ House

Bowdoinham Φ K Σ House

Roberts, Malcolm Woodbury, Fm.	<i>Alfred</i>	Φ M Δ House
Robertson, Eleanor Maxine, He.	<i>Portland</i>	South Hall
Robertson, Robert Brewer, Zo.	<i>Presque Isle</i>	25 Grove Street
Robie, Frederick Wilbur, Me.	<i>Auburn</i>	Φ M Δ House
Roche, Paul Joseph, Zo.	<i>Eastport</i>	80 North Main Street
Rogers, Anthony Joseph, Ed.	<i>Bangor</i>	63 Boyd Street, Bangor
Ross, Edward Ernest, Fy.	<i>Orono</i>	56 Park Street
Roth, Alice Patricia, Ed.	<i>Stratford, Conn.</i>	Colvin Hall
Rowe, Rosalind Mellie, Ed.	<i>Bethel</i>	Balentine Hall
Rubinoff, Dorothy Helene, He.	<i>Portland</i>	Balentine Hall
Russell, Eugene Osborn, Ch.Eng.	<i>Yarmouth</i>	35 Grove Street
Russell, Marianne Louise, Zo.	<i>Phillips</i>	Balentine Hall
Saltzman, Ada Edythe, Jn.	<i>Bangor</i>	303 Broadway, Bangor
Samuelson, Robert Wentworth, Py.	<i>Waban, Mass.</i>	B Θ Π House
Savage, Elnora Louise, Eh.	<i>Bangor</i>	127 Maple Street, Bangor
Sawyer, Margaret Claire, He.	<i>Gray</i>	Balentine Hall
Sawyer, Richard Miles, Me.	<i>Portland</i>	Φ M Δ House
Scanlin, Donald Alexander, Sy.	<i>Newport</i>	Newport
Schmidt, George Gerald, Bc.	<i>Forest Hills, L. I., N. Y.</i>	Σ X House
Schoppee, Fred Holway, Jr., Dt.	<i>Machias</i>	14 Kell Street
Schultz, Walter Melvin, Ba.	<i>Portland</i>	T E Φ House
Scribner, Mary, Py.	<i>Topsham</i>	Balentine Hall
Shapiro, Jacob, Wc.	<i>Salem, N. J.</i>	T E Φ House
Sheedy, John Richmond, Es.	<i>Portland</i>	Φ Γ Δ House
Shipman, Wayne Fonda, Jr., Ht.	<i>Worcester, Mass.</i>	Λ X A House
Shiro, Dorothy Elizabeth, Eh.	<i>Bar Harbor</i>	Balentine Hall
Shiro, James Cople, Es.	<i>Old Town</i>	30 South Fourth Street, Old Town
Simpson, Anna Margaretha, He.	<i>South Gray</i>	Balentine Hall
Smart, Atwood Ora, Ba.	<i>Houlton</i>	K Σ House
Smith, Basil Lougee, Eh.	<i>Winterport</i>	81 Main Street
Smith, Blake Harmon, Ag.	<i>Exeter</i>	Σ A E House
Smith, Donald Calvin, Ag.	<i>Easton</i>	Φ H K House
Smith, Irving Kitchen, Ag.	<i>Presque Isle</i>	25 Grove Street
Smith, Ralph Getchell, Ag.	<i>Exeter</i>	Main Street
Smith, Richard Marvard, Ht.	<i>Orono</i>	382 College Road
Smith, Winfield Clinton, Ee.	<i>Richmond, Va.</i>	Σ N House
Soderquist, Philip Gustaf, Ed.	<i>Monson</i>	14 Kell Street

Sparks, Donald Tennyson, Hy. & Gt.	<i>Phillips</i>	38 Oak Street
Spencer, Arlo Norman, Fy.	<i>Bradley</i>	Bradley
Spencer, Carl Edward, Ch.	<i>Anson</i>	43 Peters Street
Spofford, Gerald Ellsworth, Wc.	<i>Kennebunk</i>	Φ H K House
Spruce, Irene Burr, Py.	<i>Orono</i>	128 College Road
Stanley, Edward Waldron, Me.	<i>Farmington</i>	Φ M Δ House
Steeves, Jerome Irving, Wc.	<i>Lincoln</i>	Φ M Δ House
Steinmetz, Margaret Olive, He.	<i>Orono</i>	36 College Road
Stevens, Ellen Heath, Ed.	<i>Bath</i>	Colvin Hall
Stewart, Robert Frank, Ch.Eng.	<i>Winthrop</i>	Λ X Λ House
Stinson, Lois Elizabeth, Ed.	<i>Stonington</i>	Colvin Hall
Stockholm, Harold Yager, Fy.	<i>Poughkeepsie, N. Y.</i>	
		College Road, Star Route
Stone, Theodore Mordecai, Zo.	<i>Dorchester, Mass.</i>	T E Φ House
Striar, Louis, Ee.	<i>Bangor</i>	14 Adams Street, Bangor
Stuart, Parker Osborne, Ce.	<i>Bridgton</i>	2 Summer Street
Susi, Guy, Ce.	<i>Pittsfield</i>	395 College Road
Swartz, Maynard Erwin, Zo.	<i>Roxbury, Mass.</i>	T E Φ House
Sylvester, Norma Leone, Fr.	<i>Deer Isle</i>	Balentine Hall
Szaniawski, Edward William, Fy.	<i>Scarsdale, N. Y.</i>	Princeton
Tarbell, Gridley Weatherbee, Ms.	<i>Bangor</i>	188 Broadway, Bangor
Thibodeau, Gauthier Abel, Wc.	<i>Orono</i>	16 Hamlin Street
Thibodeau, Louis Henri, Rl.	<i>Rumford</i>	25 Grove Street
Thomas, Frances Priscilla, Eh.	<i>Houlton</i>	Colvin Hall
Thomas, George Merrill, Ce.	<i>Rumford</i>	Φ Γ Δ House
Thomas, Kenneth Llewellyn, Es.	<i>Portland</i>	6 Mill Street
Thompson, Merrill Gene, Me.	<i>Southport</i>	K Σ House
Thorn, Raymond Edgar, Ee.	<i>Reading, Mass.</i>	Σ N House
Tondreau, Gertrude Ruth, Fr.	<i>Brunswick</i>	Balentine Hall
Trask, Doreen Mildred, He.	<i>Farmington</i>	Balentine Hall
Trask, Roger Boardman, Fy.	<i>Bangor</i>	234 Pine Street, Bangor
Treat, William Wardwell, Gt. & Es.	<i>Winterport</i>	106 Oak Hall
Tremaine, Richard Leighton, Ee.	<i>Bangor</i>	Λ X Λ House
Trickey, Ruth Elizabeth, Dr.	<i>Pittsfield</i>	Colvin Hall
Tufts, Marion Rhoda, He.	<i>South Berwick</i>	South Hall
Turner, Frederick Wayne, Dt.	<i>Stetson</i>	14 Kell Street
Tuttle, Virginia Margaret, Ms.	<i>East Corinth</i>	South Hall
Upham, Mary Adelaide, Fr.	<i>Biddeford</i>	36 Forest Avenue
Upton, Frank Eric, Fm.	<i>Monticello</i>	University Greenhouse

Warner, Helen Althea, He.

Warren, Julia Winifred, Py.

Wass, Philmore Burlon, Ed.

Watson, Geraldine Eames, Py.

Weaver, Charles Lancaster, Ce.

Welch, Barbara Louise, Ed.

West, William Francis, Jr., Py.

Westin, Linnea Beatrice, Hy. & Gt.

Wheeler, Harold Randolph, Pa.

Whicher, Ralph Francis, Bc.

White, Marion Louise, Py.

Whitman, Edith Irene, He.

Whitney, Clifton Eugene, Fm.

Whitney, Norman Eveleth, Dt.

Williams, Rees Coffin, Me.

Willins, Linwood Gerald, Ch.Eng.

Wilson, Charles, Pa.

Wilson, Gleason Woodrow, Fm.

Woods, Evelyn Ruth, Ed.

Woodward, Joyce Clara, Hy. & Gt.

Worcester, Ruth Mabel, He.

Young, Constance, He.

Young, Hugh Edwin, Ed.

Bangor

192 Fourteenth Street, Bangor

Lubec

Balentine Hall

Machias

Kell Street

Bangor

Colvin Hall

Presque Isle

Φ H K House

Bangor

Colvin Hall

Bangor

Φ Γ Δ House

Bangor 114 Allen Street, Bangor

Fulton, N. Y.

Φ K Σ House

Springvale

University Cabin

Bangor

359 Hammond Street, Bangor

Stonington

Balentine Hall

Winn

22 Kenduskeag Avenue, Bangor

West Newton, Mass. A T Ω House

Westwood, Mass.

K Σ House

Bucksport

University Cabin

Eastport

Φ M Δ House

Jonesboro

40 Penobscot Street

Gorham

23 Bennoch Street

Auburn

Balentine Hall

Newtonville, Mass. Balentine Hall

Norway

South Hall

Aurora

Commons

JUNIORS

Adams, Albert Hayden, Pa.

Adams, Charles Edward, Me.

Adams, Clarence Kempton, Fm.

Alford, Wilson Merriman, Ce.

Allen, Dorothy Irene, Hy.

Allen, Elwood Arthur, Ed.

Alpert, Sidney Morris, Hy.

Anderson, Frank Ernest, Ed.

Anderson, Harold Frederick, Ch.Eng.

Anderson, Roy Laurel, Dt.

Arbor, Charles Joseph, Es.

Canton Point

Kell Street

Madison

University Cabin

Easton

A T Ω House

Windsor, Conn.

312 Oak Hall

Bucksport

Bucksport

Livermore Falls 56 Park Street

Bangor 455 Main Street, Bangor

Richmond

25 Grove Street

Arlington, Mass.

Σ X House

Newport

88 Park Street

Rumford

401 H. H. Hall

Ashworth, Barbara Rose, Eh.
 Astor, David, Zo.
 Austin, Henrietta Isabelle, Ed.

Babel, William Keith, Bt. & En.

Baker, Charles Leo, Me.
 Banton, Hartley Lanpher, Me.
 Barrett, Barbara, He.
 Barter, Sarah Louise, He.
 Bartley, Henry Havelock, Ag.
 Bates, Mary Lena, He.
 Beasom, George Reynold, Ht.
 Bell, Kenneth Dean, Me.
 Benjamin, Roger Olney, Pa.

Bennett, Robert Howard, Ce.
 Benson, Ruth Ellen, He.
 Berry, Rockwood Norton, Ht.
 Besse, Beatrice Austin, Ed.
 Billings, Paul Clayton, Ch.Eng.
 Black, Gardner Angus, Ch.Eng.
 Black, Irving Halsey, Wc.
 Blaisdell, Donald, Ee.
 Blaisdell, Kenneth Wilbur, Es.
 Bond, Avery Lindley, Me.
 Boone, Mary Elizabeth, He.
 Booth, William Roberts, An.
 Boyle, Harry Louis, Ee.
 Boyle, Jean Elizabeth, Dr.
 Boyle, Kathleen Mary, Eh.
 Brackett, Donald Twitchell, Fy.
 Bracy, Horace Gordon, Ba.
 Bradbury, Dorothy Marie, Ed.
 Bramhall, Richard Arthur, Me.
 Brann, William Henry, Es.
 Bridges, June Hanson, Zo.
 Briggs, Frederick Olson, Ed.
 Briggs, Ruth Cloudman, Eh.
 Brody, Sidney Saul, Me.

Brown, Brooks, Jr., Sh.

Orono 88 North Main Street
Portland T E Φ House
Fort Kent South Hall

North Tonawanda, N. Y.

35 Grove Street
Bucksport 14 Island Avenue
Newport A T Ω House
Orono 11 Pierce Street
Clinton 87 Main Street
Presque Isle 26 Island Avenue
Bath Balentine Hall
Orono 100 North Main Street
Orono 188 Main Street
New York, N. Y.

69 Forest Avenue
Cranston, R. I. Σ X House
Kennebunkport 15 Pierce Street
Livermore Falls Men's Infirmary
Brooks 23 Bennoch Street
Stonington 15 Park Street
Orono 80 Forest Avenue
Long Branch, N. J. A Γ P House
Reading, Mass. Φ K Σ House
Ellsworth Φ K Σ House
Jefferson 38 Pine Street
Presque Isle Colvin Hall
Cumberland Center A Γ P House
Bangor 59 Essex Street, Bangor
Madison South Hall
Madison South Hall
Portland Φ Γ Δ House
Ogunquit A X Λ House
Fort Kent 505 College Road
Quincy, Mass. B Θ Π House
Gardiner K Σ House
Boundary Cottage Colvin Hall
Caribou 45 Mill Street
Augusta 82 Main Street
East Dedham, Mass.

24 Pierce Street
Augusta A X Λ House

Brown, Carl Raymond, Ee.
 Brown, Leroy Clark, Dt.
 Brown, Miriam Agnes, He.
 Brown, Priscilla Evelyn, He.
 Brownell, Arnold Buffum, Fy.
 Brundage, Alfred Griswold, Fm.
 Buck, Raymond Wilbur, Jr., Ag.
 Burden, Frederick Ernest, Sh.
 Burke, Mary Frances, L.A. & N.

Burton, Blending LeRoy, Eng.Ps.

Butterworth, Dale Jared, An.
 Buzzell, Calista Louise, Dr.
 Byer, David Louis, Ee.
 Byrne, John Francis, Me.

Cahill, Anna Robena, Ba.
 Candage, Byron Whitefield, Ce.
 Carlisle, Robert, Es.
 Carter, Elton Stewart, Sh.
 Carver, Clara Ernestine, He.

Chamberlain, Everett Bacon, Fy.
 Champenois, Marion, Sy.
 Chase, Faulkner Earlmont, Es.
 Chase, Gordon Elms, Ba.
 Chase, Richard Holden, Ce.
 Chase, Richard Raymond, Pa.
 Chipman, Lester Duran, Ee.

Christie, Alice Elizabeth, Hy. & Gt.
 Clark, Arnold Hinckley, Eng.Ps.
 Clark, Eva Adeline, He.
 Clement, John Caldwell, Es.
 Coffin, Robert William, Me.
 Cohen, Milford Francis, Pa.
 Colbath, Burton Monroe, Ag.
 Colby, John Seagrave, Sy.
 Colley, Chester Arthur, Ba.

Levant 185 Pearl Street, Bangor
Farmington Farm Boarding House
Norway Colvin Hall
Milford Milford
Cape Elizabeth Φ Γ Δ House
Danbury, Conn. Φ H K House
Monticello A Γ P House
Orono 38 Pine Street
Bangor

Water Works, State Street,
 Bangor

Bangor
 77 Webster Avenue, Bangor
Franklin, Mass. Σ X House
Milford Milford
Bangor 36 Essex Street, Bangor
Marlboro, Mass. K Σ House

Bangor 529 Main Street, Bangor
Scal Harbor 40 College Road
Bangor Φ Γ Δ House
Mapleton Φ H K House
Vinalhaven

Home Management House
Belgrade Lakes University Cabin
Meridian, Miss. Balentine Hall
Bryant Pond B Θ II House
Bryant Pond 30 Main Street
Sharon, Mass. B Θ II House
Portland 60 Forest Avenue
Mechanic Falls

27 Wiley Street, Bangor
Grand Lake Stream Colvin Hall
Liberty 18 Oak Street
Orono 505 College Road
Belfast Φ Γ Δ House
Harrington 395 College Road
Portland T E Φ House
Westfield 31 Hill Street
South Paris Σ X House
Newton Centre, Mass. Φ K Σ House

Comstock, Corinne Louella, Hy. & Gt.	Millinocket	Balentine Hall
Condon, James Stevens, Me.	South Brooksville	12 Park Street
Conlan, Mabelle Blanche, Ms.	Biddeford	Balentine Hall
Cooper, James Gordon, III, Ed.	Orono	32 College Road
Cooper, Laurence Arthur, Jr., Ch.Eng.	Auburn	Λ X Λ House
Cote, Hermenegilde Paul, Es.	Lewiston	Θ X House
Cotton, George Benjamin, Ch.Eng.	Auburn	Φ Γ Δ House
Cowan, Frederick Walter, Fy.	Portland	Λ X Λ House
Craft, Laura Ursula, He.	Bath	Balentine Hall
Craig, John Stryker, Me.	Bingham	28 Main Street
Crandall, Quenton Kenwood, Sh.	Presque Isle	Φ H K House
Crane, Judson Burleigh, Me.	Whiting	80 Pine Street
Creamer, Mavis Lorraine, Eh.	Calais	Colvin Hall
Cromwell, Margaret Emma, Rl.	Bangor	98 Patten Street, Bangor
Crosby, Isabella, Eh.	Dexter	Balentine Hall
Crouse, Frederick Marshall, Dh.	Crouseville	Φ H K House
Culberson, Sara Louise, He.	Easton	Balentine Hall
Cummings, Robert Ambrose, Ms.	Bryant Pond	Σ N House
Cushing, Pauline Florence, Fr.	Portland	South Hall
Dalrymple, Stewart Willard, Me.	Newton Centre, Mass	Λ X Λ House
Day, Linwood McGuire, Eh.	Westbrook	86 Mill Street
Dearborn, John Bartholomew, Me.	Ansonia, Conn.	Φ Γ Δ House
Dearborn, Russ Parker, Me.	Melrose, Mass.	B Θ II House
Delano, Raymond Frederick, Ph.	East Corinth	88 Park Street
Demant, William Hans, Fy.	East Orange, N. J.	Φ Γ Δ House
Devoe, Donald Brown, Ps.	Bangor	221 Elm Street, Bangor
Dexter, Franklin Dunbar, Eng.Ps.	Martinsville, N. J.	Φ Γ Δ House
Dinsmore, Joseph Smart, Jr., Ms.	Bangor	151 Court Street, Bangor
DiPersio, Robert, Ms.	Meriden, Conn.	85 Main Street
Doak, Camilla, He.	Belfast	Balentine Hall
Dole, Francis Henry, Ch.	Bangor	R. #2, Bangor
Dondis, Meredith Philip, Ba.	Rockland	T E Φ House
Dougherty, Eleanor Mary, He.	Camden	Colvin Hall
Dougherty, George Nowland, Hy. & Gt.	Houlton	K Σ House
Douglas, Earl Graeme, Me.	Hull, Mass.	29 Park Street
Drummond, Esther Hinckley, Eh.	Arrowsic	Colvin Hall
Duffey, Richard Vincent, Fy.	East Orange, N. J.	Λ X Λ House
Dumas, Paul Raymond, Fy.	Rumford	Δ T Δ House
Duplissa, George Allan, Jr., Ba.	Old Town	90 Veazie Street, Old Town

Dyer, John Reed, Me.	<i>Augusta</i>	38 Grove Street
Dyer, Wesley James, Ph.	<i>Norway</i>	A Γ P House
Earnshaw, John, Ee.	<i>Fall River, Mass.</i>	Σ N House
Edgecomb, Raymond Henry, Ch.Eng.	<i>Sebago Lake</i>	60 Forest Avenue
Edmunds, John Joseph, Ee.	<i>Mars Hill</i>	Φ H K House
Ehrlenbach, Howard Lincoln, Fy.	<i>Tonawanda, N. Y.</i>	35 Grove Street
Ellis, George Hathaway, Es.	<i>Orono</i>	29 Park Street
Emery, Clarence Eugene, Ag.	<i>Westbrook</i>	A Γ P House
Emery, Elizabeth Mason, He.	<i>Bucksport</i>	Balentine Hall
Emery, Mark Peter, Ch.Eng.	<i>Bangor</i>	44 Boutelle Road, Bangor
Evans, Joanna Holmes, He.	<i>Wiscasset</i>	Balentine Hall
Fairchild, Thomas Leonard, Fm.	<i>Jay</i>	Φ K Σ House
Farmer, Percy Lyman, Jr., Ch.	<i>Peaks Island</i>	4 Summer Street
Farnham, Florence Julia, He.	<i>Lynn, Mass.</i>	Colvin Hall
Fenderson, Willard Edward, Zo.	<i>Calais</i>	202 H. H. Hall
Fifield, Alma Marguerite, Hy. & Gt.	<i>Brewer</i>	71 Parker Street, Brewer
Fillmore, Karl Alwyn, Py.	<i>Chamberlain</i>	University Cabin
Fisher, George Norton, Me.	<i>Wakefield, Mass.</i>	80 North Main Street
Friday, John Alexander, Fy.	<i>Schenectady, N. Y.</i>	B Θ Π House
Frost, Albert Hyldon, Ba.	<i>Dexter</i>	Φ M Δ House
Frost, Howard Robinson, Zo.	<i>Westfield, Mass.</i>	Φ Γ Δ House
Gallagher, Keith Navarre, Agr. Eng.	<i>Limestone</i>	Δ T Δ House
Gammons, Elizabeth, Hy.	<i>East Greenwich, R. I.</i>	Balentine Hall
Gardner, Charles Sherer, Fy.	<i>Orono</i>	133 Main Street
Gardner, Horace Leonard, Me.	<i>Freeport, N. Y.</i>	Φ M Δ House
Gardner, Moffat Alexander Cowan, Ed.	<i>Portland</i>	45 Mill Street
Gardner, Roderic Adie, Ba.	<i>Cape Elizabeth</i>	B Θ Π House
Garland, Winton Steward, Fy.	<i>Bangor</i>	63 Wiley Street, Bangor
Garrison, Ruth Jeannette, Fr.	<i>Madison</i>	Colvin Hall
Garvin, Isabelle, He.	<i>Alfred</i>	Balentine Hall
Genge, Clarence Kitchener, Me.	<i>Arlington, Mass.</i>	H. H. Hall
Gilman, Arnold Robert, An.	<i>Forest Hills, N. Y.</i>	35 Grove Street
Gilman, George Dudley, Fy.	<i>North Abington, Mass.</i>	Δ T Δ House
Gleason, Beatrice Helen, Eh.	<i>South Portland</i>	Colvin Hall
Godwin, Halsted Buel, Dr.	<i>Orono</i>	106 North Main Street

Goodchild, Donald Wood, Ch.Eng.
 Goodrich, Sidney Joseph, Me.
 Goodwin, Donald Watson, Hy.
 Goodwin, Robert Burrill, Ee.
 Goos, Phillip, Pa.
 Gosline, Walter Wadsworth, Ba.
 Grant, Elizabeth Payson, He.
 Grant, George Crandlemire, Py.
 Gray, Margaret Alma, Hy.
 Greenlaw, David Sutton, Ch.Eng.
 Greenlaw, Donald Olive, Ms.
 Greenwood, David Carroll, Me.
 Griffin, Lloyd Wilfred, Eh.

Hall, Albert Ernest, Jr., Wc.

Hall, Charles Alfred, Zo.
 Hamilton, James Oliver, Me.
 Hamm, Harold Isaiah, Ba.

Hansen, Alma Mabel, Eh.
 Hanson, Fred Crowell, Me.
 Harlow, Laurence Joseph, Pa.
 Harris, James William, Ba.
 Hartwell, James Haywood, Ce.
 Hatchard, Donald Gordon, Ee.
 Herbert, Pauline Clarice, Ed.
 Herrick, Robert Chandler, Ed.
 Hill, Albert Edwin, Ed.
 Hill, Virginia, Eh.
 Hiller, Robert Frederick, Fy.
 Hocter, John Michael, Ed.
 Hodgdon, Kenneth Willis, Wc.
 Holden, Miriam Elizabeth, He.
 Holmes, Allan Bragdon, Ee.
 Holyoke, Donald Brooks, Ag.
 Hook, Walter Allan, Ce.
 Hopkins, Elizabeth Marian, Zo.
 Hopkins, Emily Marjorie, Eh.
 Hopkins, Richard Samuel, Me.
 Horne, Frances Taylor, Py.

Saco Φ K Σ House
 Gorham Δ X Δ House
 Alfred 36 Grove Street
 Brewer 119 Parker Street, Brewer
 Bangor 87 Birch Street, Bangor
 Gardiner Δ T Δ House
 Portland Balentine Hall
 Waterville 306 Oak Hall
 Sandy Point 20 Forest Avenue
 Norway Σ X House
 Jay Φ M Δ House
 Gardner, Mass. Σ N House
 Bradford, Mass. University Cabin

Merchantville, N. Y.

395 College Road
 Castine Σ A E House
 Waterboro Φ M Δ House
 Bangor
 65 Kenduskeag Avenue, Bangor
 South Portland Balentine Hall
 Bangor 396 French Street, Bangor
 Barre Plains, Mass. Δ T Δ House
 Winchester, Mass. 302 Oak Hall
 Trenton, N. J. 7 Summer Street
 Tenaflly, N. J. 6 North Main Street
 Bangor 491 Ohio Street, Bangor
 Presque Isle 33 Spencer Lane
 Warren Kell Street
 Wilmington, Mass. Balentine Hall
 Foxboro, Mass. 25 Myrtle Street
 Old Orchard Beach Σ N House
 Anson University Cabin
 Portland 15 Pierce Street
 Guilford Σ X House
 Brewer Eastern Avenue, Brewer
 Portland Σ X House
 Lexington, Mass. Colvin Hall
 Waterville Balentine Hall
 Bucksport Bucksport
 Portland South Hall

Howe, Charles Leonard, An.	<i>Kingfield</i>	25 Grove Street
Howe, Robert Frank, Ag.	<i>Framingham, Mass.</i>	35 Oak Street
Howe, Virginia Mae, Dr.	<i>Union</i>	20 Forest Avenue
Howes, Cecil Edgar, Ph.	<i>Patten</i>	
		52 Blackstone Street, Bangor
Hoyt, John Folsom, Ce.	<i>Fort Fairfield</i>	Φ H K House
Huey, Homer Sanford, Sy.	<i>Bangor</i>	113 Pine Street, Bangor
Humphries, Angus Edward, Fy.	<i>Perry</i>	56 Park Street
Hunt, Norman Earl, Fm.	<i>Clinton</i>	Farm Boarding House
Hutcheon, James Lewis, Ag.	<i>Presque Isle</i>	A T Ω House
Hutchins, Elbridge Leland, Ed.	<i>Penobscot</i>	Stillwater
Hutchins, Martha Elizabeth, Zo.	<i>Kingfield</i>	Colvin Hall
Ingalls, Earle Lewis, Fm.	<i>Portland</i>	Σ A E House
Ingalls, Katherine Virginia, Ed.	<i>Ellsworth</i>	58 Park Street
Ingham, Joseph Morton, Jn.	<i>Concord, N. H.</i>	B Θ Π House
Irvine, Robert Mayes, Fy.	<i>Framingham, Mass.</i>	Φ Γ Δ House
Jackson, Floyd Frederick, Fm.	<i>Rumford</i>	Φ K Σ House
Jackson, Robert Allan, Ba.	<i>New Bedford, Mass.</i>	
		7 Summer Street
Jackson, Stephen Hamilton, Fy.	<i>Union, N. J.</i>	27 Myrtle Street
Jewell, Duncan Henry, Fm.	<i>Orono</i>	34 Forest Avenue
Jewett, Virginia Choate, He.	<i>Westport</i>	Colvin Hall
Johnson, Glenna Mae, He.	<i>Ashville</i>	Colvin Hall
Johnson, Vernon Elbert, Fy.	<i>Milford</i>	Milford
Jones, Margaret Louise, He.	<i>Orono</i>	164 College Road
Jordan, Harold John, Me.	<i>Augusta</i>	Φ K Σ House
Kelley, Arthur Louis, Ed.	<i>St. Francis</i>	Σ N House
Kelley, Lawrence Babbitt, Pa.	<i>Bellows Falls, Vt.</i>	Φ M Δ House
Kennedy, Clair Arthur, Zo.	<i>South Brooksville</i>	
		64 Penobscot Street
Ketchum, Frank Wentworth, Ag.	<i>Houlton</i>	25 Grove Street
Kilas, Joseph Lawrence, Pa.	<i>Rumford</i>	Λ X A House
Kimball, Everett Augustus, Ba.	<i>Brewer</i>	182 Wilson Street, Brewer
Kinghorn, Robert Colin, Fy.	<i>Fitchburg, Mass.</i>	Φ M Δ House
Kingsbury, Walton Cameron, Wc.	<i>Boonville, N. Y.</i>	95 Mill Street
Kleiner, Borris, Gt. & Es.	<i>Bangor</i>	348 State Street, Bangor
Knapp, Phyllis Lucy, He.	<i>Bradley</i>	Bradley
Knight, Mervin Taber, Es.	<i>Newton Centre, Mass.</i>	K Σ House

Knights, Maxine Sherwin, He.	Brewer	
Kozicky, Edward Louis, Wc.	322 South Main Street, Brewer	
	Eatonston, N. J.	Stillwater
Ladd, Leon Fairclough, Ee.	Lewiston	Σ N House
Lapham, Daniel, Ba.	West Concord, Mass.	
	29 Forest Avenue	
Larsson, Robert Dustin, Ms.	Gloucester, Mass.	38 Pine Street
Leining, Charles Frederick, Hy. & Gt.	Mt. Vernon, N. Y.	Σ A E House
Lewis, John, Jr., Ch.Eng.	Skowhegan	Φ K Σ House
Libby, Clifford White, Fy.	Portland	35 Grove Street
Libby, Frederick Andrew, Dr.	Orono	51 North Main Street
Linnell, Ruth Howe, Eh.	Pembroke	Balentine Hall
Locsin, Manuel Vicente, Pa.	Victorias, Occ.	
	Negros, P. I.	85 Main Street
London, Mansfield Gray, Ag.	Houlton	A Γ P House
Look, Eleanor Carolyn, Sh.	Rockland	Colvin Hall
Lord, Nathaniel Nelson, Zo.	Wells	Σ A E House
Loudon, Alexander Duncan, Py.	Brownville	
	26 Church Street, Brownville	
Lovejoy, Robert John, Zo.	Farmington	Σ A E House
Lundberg, Robert Nelson, Zo.	Gloucester, Mass.	Φ H K House
Lush, Earl Roy, Ed.	Oakland	25 Grove Street
McAlary, Elizabeth Mary, He.	Rockland	Balentine Hall
McAllister, Joan, By.	Gorham	Colvin Hall
McCrum, Don Lemuel, Fm.	Mars Hill	Φ H K House
McDonald, Robert Skillings, Eng.Ps.	Portland	Θ X House
McDonough, Jean Ellin, Zo.	Portland	Colvin Hall
MacEdward, James Angus, Me.	Union	19 First Street, Bangor
MacGregor, Walter Newell, Ee.	Eastport	Φ M Δ House
McIntire, Edith Blanche, Eh.	Dixfield	South Hall
McKay, Gordon Bush, Me.	Old Town	
	64 Bradbury Street, Old Town	
McPheters, Robert Douglas, Ch.Eng.	Bar Harbor	25 Grove Street
Mack, Betty C., Hy. & Gt.	Bangor	R.F.D. #7, Bangor
Mann, Alfred Alroy, Ch.Eng.	Raymond	Φ K Σ House
Marriner, Norman Earle, Ms.	Camden	212 H. H. Hall
Marshall, James Robert, Ee.	Farmington	56 North Main Street
Martin, Anne McManus, Ed.	Eagle Lake	54 Pine Street
Millay, Harold Sidney, Ee.	Richmond	Φ M Δ House

Miller, Marion Flint, He.	Thomaston	Colvin Hall
Mitchell, Shirley Martha, He.	Fairfield	Balentine Hall
Monohon, Paul Jordan, Hy. & Gt.	Maplewood, N. J.	Φ K Σ House
Mooers, Robert Douglas, Ba.	Orono	45 Mill Street
Morris, Robert Irving, Zo.	Bangor	45 Maple Street, Bangor
Morse, Carroll Edwin, Me.	Bath	28 Main Street
Mosher, Mary Elizabeth, He.	Bangor	
	102 Kenduskeag Avenue, Bangor	
Mosher, Paul Newell, Dh.	Dryden	88 Park Street
Moulton, Virginia, Py.	Bangor	Balentine Hall
Murphy, Hugh Jerome, Ag.	Fort Fairfield	Σ N House
Murray, George Leslie, Ed.	Newport	A T Ω House
Mutty, Edwin Louis, Ba.	Bangor	168 Grove Street, Bangor
Muzroll, Lawrence Joseph, Zo.	Rumford	K Σ House
Myers, Clyde Edmund, Mc.	Orono	33 Spencer Lane
Newcomb, Frederick Melville, Ag.	Scarboro	K Σ House
Newhall, Carl Alvin, Ce.	Pcabody, Mass.	K Σ House
Nichols, Malcolm George, Fy.	Stillwater	Stillwater
Nichols, Margaret Jane, Rl.	Stillwater	Stillwater
Nickerson, Thomas Henry, Ee.	Harrington	B Θ II House
Nunan, Richard Tribler, Ba.	Monhegan Island	87 Park Street
Nystrom, George Leonard, Pa.	Plainville, Conn.	B Θ II House
Oakes, Stewart Francis, Me.	Rangeley	Σ N House
O'Donoghue, John Kew, Me.	Lowell, Mass.	380 College Road
Olsson, Henry Richard, Ch.	Lynnfield Center, Mass.	
		Σ N House
Oppenheim, Edward Elliot, Gt.	Bangor	
	226 Hammond Street, Bangor	
Orff, Barbara Alice, He.	Rockland	Colvin Hall
Osgood, Burt Sterling, Jr., Ba.	Orono	60 Park Street
Packard, Ruth Gray, Rl.	Orono	15 Mill Street
Parsons, Charles Boone, Fm.	Presque Isle	A T Ω House
Parsons, William Frazier, Eng.Ps.	Skowhegan	Σ X House
Paul, Roger Fernald, Fy.	York Beach	A X A House
Payson, Carlton Burkett, Ag.	Union	College Road, Star Route
Peaslee, Elizabeth Frances, He.	Concord, N. H.	Balentine Hall
Peavey, Harry Clothey, Jr., Me.	Webster Groves, Mo.	
	208 French Street, Bangor	

Peirce, Jean Margaret, He.
 Pennell, John Dunning, Jr., Ch.Eng.
 Perkins, Charlene Mary, Sy.
 Perkins, Howard Roscoe, Ce.
 Perry, Clifford Given, Me.
 Perry, Orin Francis, III, Gm.
 Philbrook, Constance Fanny, He.
 Philbrook, Margaret Elizabeth, Hy.
 Pierce, Richard Hurd, Hy.
 Pineo, Priscilla, L.A. & N.
 Pinkham, Ernestine King, Rl.
 Piper, Allan Eugene, Bt. & En.
 Piper, Richard Simmons, Ch.
 Plummer, Richard Frank, Ch.Eng.
 Pomeroy, Yvonne Anna, Rl.

Pratt, Virgil Stewart, Wc.

Preble, Claralyn Owen, Sy.
 Preble, Clayton Hinckley, Ee.
 Pullen, Winston Eugene, Fm.

Ramsay, Joyce, Ed.
 Ramsdell, Richard Theodore, Fy.
 Rand, Emily Allen, Ms.
 Reed, Ruth Helena, He.
 Reed, Walter Sherwood, Jr., Gt.
 Reid, Elizabeth Stanley, Py.
 Reilly, James Richard, Wc.

Reitz, John Addison, Ce.
 Rheinlander, Harold Falle, Zo.
 Riddle, Oscar Walter, Me.
 Riddle, William James, Ch.Eng.
 Riley, Pauline Frances, Sy.
 Risman, George Carl, Zo.
 Roach, Harry Quinton, Fm.
 Robertson, Frank O'Neil, Jr., Zo.
 Robertson, Kenneth Noble, Me.
 Rogers, Vernon Grantham, Ba.

Bangor 205 Elm Street, Bangor
 Portland 34 Pine Street
 Madison Balentine Hall
 Orono 80 North Main Street
 Bowdoinham 88 Park Street
 Dobbs Ferry, N. Y. K Σ House
 Shelburne, N. H. Balentine Hall
 Tenaflly, N. J. Balentine Hall
 Leominster, Mass. Σ A E House
 Milo Colvin Hall
 Portland Colvin Hall
 Troy A T P House
 Brewer 230 Center Street, Brewer
 Lisbon A T Ω House
 Hampden Highlands
 Hampden Highlands

Stillwater
 Bennoch Road, Stillwater
 Enfield 10 Oak Street, Old Town
 Addison 395 College Road
 Monson
 192 Webster Avenue, Bangor

Fort Kent 87 Main Street
 Milton, Mass. A T P House
 Bangor 14 Frances Street, Bangor
 Madawaska Colvin Hall
 Boothbay Harbor Δ T Δ House
 Bangor Balentine Hall
 Tottenville, S. I., N. Y.
 Σ N House
 Waltham, Mass. Σ X House
 Van Buren A T Ω House
 Rangeley Σ A E House
 Bridgton Σ A E House
 Biddeford Balentine Hall
 Roxbury, Mass. 14 Park Street
 Smyrna Mills Σ N House
 Bethel A T Ω House
 Auburn 302 H. H. Hall
 Bangor
 700 Hammond Street, Bangor

Romero, Margaret Robinson, Py.	Bangor	32 North Street, Bangor
Rowe, Elizabeth Gould, He.	Milo	Balentine Hall
Rowe, Hilda Barton, Py.	Bangor	Balentine Hall
Rubin, Sylvia Anna, Eh.	Bangor	312 French Street, Bangor
Runion, Leona May, Sh.	Orono	15 Pond Street
Sadler, Rudolph Charles Albert, Ee.	Limerick	Σ X House
Savage, Norris Allen, Ed.	Bar Harbor	25 Grove Street
Sawyer, Frances Lenora, He.	Waterville	Balentine Hall
Scanlin, Merlin Thomas, Fm.	Weston	University Cabin
Serota, Jacob, Fy.	Portland	35 Grove Street
Sewell, Edgar Fuller, Ch.	Bangor	117 Grove Street, Bangor
Shackelford, Charles Henry, By.	South Hamilton, Mass.	Σ N House
Shaw, Delmar Daniel, Me.	Scarboro	Φ Γ Δ House
Shearer, Frank Price, Wc.	Pennington, N. J.	K Σ House
Shepard, LeRoy Grenville, Me.	Deer Isle	Φ K Σ House
Sherman, Charles Merrill, Ba.	Pembroke, Mass.	Δ T Δ House
Simpson, Eloise Pratt, Ms.	Attleboro, Mass.	Colvin Hall
Sirles, Dorothy Hartz, Ed.	Lubec	45 Silk Street, Brewer
Skoufis, Peter John, Hy. & Gt.	Bangor	18 Lincoln Street, Bangor
Smart, Madeline Marie, He.	Houlton	Balentine Hall
Smart, Phyllis Lillian, Ed.	LaGrange	222 Elm Street, Bangor
Smith, Charles Byron, Jr., Ph.	Orono	39 Park Street
Smith, Julia Alice, He.	Limerick	South Hall
Smith, Owen Halbert, Ag.	Presque Isle	Φ H K House
Smith, Robert Butman, Ba.	South Portland	Stillwater
Smith, Sherman King, Ce.	Gardiner	26 Island Avenue
Smith, Thomas Joseph, Jr., Ch.Eng.	West Haven, Conn.	Δ T Δ House
Snow, Elayne Marguerite, Ed.	Caribou	The Elms
Sobel, Isadore Theodore, Pa.	New York, N. Y.	T E Φ House
Somes, John William, Ba.	Mt. Desert	Σ N House
Staples, Grant Dockendorff, Ce.	Whitefield	26 Island Avenue
Staples, Ormond Adolph, Fy.	Camden	25 Myrtle Street
Starbird, Clinton Virgil, Me.	Strong	Σ A E House
Stearns, Roger Austin, Fm.	South Paris	312 H. H. Hall
Stevens, Clifford Alton, Fy.	Lincoln	Φ M Δ House
Stevens, John Rufus, Ag.	Smyrna Mills	26 Davis Street, Old Town
St. Germain, William Albert, Me.	Greenville	Σ A E House
Stillings, Alice Gertrude, Hy.	South Portland	The Elms
Stisulis, Walter Lewis, Ce.	Mexico	412 H. H. Hall

St. Lawrence, Mitchell Bradley, Fm.	<i>Orono</i>	27 Myrtle Street
Storer, Allan Philbrick, By.	<i>Freedom</i>	Δ T Δ House
Strang, Walter Pershing, Wc.	<i>Madison</i>	Σ A E House
Stritter, Karl Witmer, Ht.	<i>Nahant, Mass.</i>	B Θ Π House
Stubbs, Charlton Percival, Me.	<i>Bucksport</i>	Bucksport
Sullivan, Richard Paul, Me.	<i>Portland</i>	A T Ω House
Tackaberry, Robert Bernard, Eng.Ps.	<i>Old Town</i>	
		28 Davis Street, Old Town
Talbot, James Edward, Fy.	<i>Woodland</i>	A T Ω House
Tarbell, Allan Brown, Ba.	<i>Smyrna Mills</i>	B Θ Π House
Tardoni, Daniel James, Ch.Eng.	<i>Sayre, Pa.</i>	Stillwater
Thompson, Esther LaDora, Rl.	<i>Biddeford</i>	Balentine Hall
Thompson, Harold Everett, Dt.	<i>Leominster, Mass.</i>	Φ M Δ House
Towle, Ada Melissa, Ed.	<i>Newfield</i>	5 Park Lane
Towle, Myron John, Fm.	<i>Fort Fairfield</i>	Φ H K House
Townsend, Paul Alexander, Ms.	<i>Blue Hill</i>	Θ X House
Tracy, Frederick Foster, Me.	<i>Northeast Harbor</i>	Σ A E House
Tracy, Samuel Edwin, Jr., Sh.	<i>Northeast Harbor</i>	Σ A E House
Treat, George Currier, Me.	<i>Bangor</i>	
		66 Kenduskeag Avenue, Bangor
Troop, Benjamin Sabin, Fy.	<i>West Hartford, Conn.</i>	Φ H K House
Trott, Margaret Elizabeth, Hy.	<i>Bath</i>	Balentine Hall
Trowbridge, John Perrin, Ce.	<i>Pomfret Center, Conn.</i>	
		Δ X A House
True, Frank Asia, An.	<i>Springfield</i>	Farm Boarding House
Tucker, Herbert Walter, Fy.	<i>Cherryfield</i>	395 College Road
Tufts, Christine Evelyn, Sy.	<i>Kingfield</i>	Balentine Hall
Tweedie, James Kerr, Hy.	<i>Lamoine</i>	Σ A E House
Utterback, John Dudley, Ge.	<i>Bangor</i>	Φ Γ Δ House
Valliere, Raymond Andrew, Hy.	<i>South Berwick</i>	Δ T Δ House
Verrill, Anna Elizabeth, He.	<i>Westbrook</i>	Colvin Hall
Volkman, Wallace Harry, Ee.	<i>West Somerville, Mass.</i>	
		6 Mill Street
Walker, Alexander, Jr., Fy.	<i>Rochester, N. Y.</i>	K Σ House
Walker, Neal Harvey, Ag.	<i>Wiscasset</i>	A Γ P House
Wall, Robert Hanley, Ee.	<i>Wells</i>	41 Mill Street
Wallace, Henry William, Me.	<i>Freeport, N. Y.</i>	Φ M Δ House

Walsh, Agnes Ann, Rl.	<i>South Portland</i>	Balentine Hall
Ward, Catherine Margaret, Fr.	<i>Portland</i>	The Elms
Warren, David Wyman, Jr., Rl.	<i>Pripet</i>	Φ Γ Δ House
Webster, June Anna, He.	<i>Bangor</i>	435 Union Street, Bangor
Webster, Shirley Gwynne, Me.	<i>Lincoln</i>	25 Grove Street
West, Dora Brown, Py.	<i>Lexington, Mass.</i>	Balentine Hall
Weston, Donald Williams, Me.	<i>Madison</i>	College Road, Star Route
Weymouth, Flora Gwendolyn, L.A. & N.	<i>Howland</i>	Colvin Hall
Wheeler, Francis Adams, Me.	<i>Auburn</i>	A T Ω House
White, Charlotte Zeluma, Eh.	<i>Bowdoinham</i>	South Hall
White, Ruth Elizabeth, Eh.	<i>Bangor</i>	Balentine Hall
Whitehouse, Marjorie Marion, Rl.	<i>Augusta</i>	South Hall
Whitman, Forrest Giles, Fy.	<i>East Auburn</i>	Σ N House
Whitney, Byron VanBleck, Zo.	<i>Winn</i>	25 Grove Street
Whitten, Maurice Harvard, Ag.	<i>Fort Kent</i>	Φ H K House
Wilbur, Gorham Homer, Me.	<i>Dexter</i>	College Road, Star Route
Wilkinson, Margaret Frances, Eh.	<i>Orono</i>	25 Grove Street
Willard, Dorothy Arline, Ed.	<i>Presque Isle</i>	The Elms
Willets, Robert Taber, Fy.	<i>Roslyn, N. Y.</i>	K Σ House
Willey, Roslyn Bradford, Ag.	<i>Orono</i>	88 Park Street
Williams, Frank Raymond, Es.	<i>Mechanic Falls</i>	Φ Γ Δ House
Williams, James Oliver, Ch.Eng.	<i>Ogunquit</i>	26 Peters Street
Wilson, Adam Winslow, Fm.	<i>Portland</i>	Φ K Σ House
Wing, Dorothy Hopkins, He.	<i>Bath</i>	Colvin Hall
Wood, Amy Sheppard, Mc.	<i>Old Town</i>	
		19 North Brunswick Street, Old Town
Woodbrey, Cecil Sherman, Eng.Ps.	<i>Sebago Lake</i>	Φ H K House
Woolley, Thomas Russell, Jr., Sh.	<i>Bridgton</i>	Σ A E House
Wormwood, Helen Bradbury, Hy.	<i>Portland</i>	Balentine Hall
Young, Barbara Alice, Ms.	<i>Calais</i>	Colvin Hall
Zieno, Angelo Salvatore, Fy.	<i>Norwich, N. Y.</i>	14 Park Street
Zitaner, Morris, Zo.	<i>South Brewer</i>	
		R.F.D. #8, South Brewer

SOPHOMORES

Abbott, Susan Dukeshire, He.	<i>Union</i>	South Hall
Adams, David Archibald, Ch.Eng.	<i>South Brewer</i>	A X A House
Adams, Earl Castner, Arts	<i>Portland</i>	University Cabin
Adasko, Miriam Revilla, Arts	<i>Gloucester, Mass.</i>	Balentine Hall
Albert, Joseph James, Arts	<i>Bangor</i>	96 Garland Street, Bangor
Alexander, Helen Audrey, Arts	<i>Saco</i>	Balentine Hall
Alpert, Ada Fiana, He	<i>Bangor</i>	137 State Street, Bangor
Anderson, John Rudolph Me.	<i>Livermore Falls</i>	Φ Γ Δ House
Andrews, Frances Christine, He.	<i>Portland</i>	Balentine Hall
Andrews, Francis Swain, Arts	<i>Norway</i>	Σ X House
Ansell, Elizabeth Clark, Arts	<i>Dexter</i>	The Elms
Arbo, Edward Payson, Arts	<i>Brownville</i>	Θ X House
Armitage, Walter Howard, Me.	<i>Methuen, Mass.</i>	395 College Road
Ashman, Shirley Gladys, Arts	<i>Augusta</i>	Balentine Hall
Atwood, Florence Caro, He.	<i>Brunswick</i>	Balentine Hall
Axtell, Arthur Gardner, Wc.	<i>Saugerties, N. Y.</i>	Φ Η K House
Bachman, Gerald William, Ch.Eng.	<i>Augusta</i>	A X A House
Backer, Albert David, Dh.	<i>Brooklyn, N. Y.</i>	43 Main Street
Bacon, Henry Ferdinand, Ce.	<i>Oakland</i>	25 Grove Street
Banks, Constance Jean, He.	<i>Bangor</i>	The Elms
Banton, Madeliene Lois, He.	<i>Newport</i>	The Elms
Bardo, Clinton Lloyd, Fy.	<i>Providence, R. I.</i>	A X A House
Barker, Elizabeth Jane, Arts.	<i>Bangor</i>	99 Sanford Street, Bangor
Barrows, Edward Pomeroy, Arts	<i>Augusta</i>	B Θ Η House
Barrows, John Clifford, Eng.Ps.	<i>Glen Ridge, N. J.</i>	B Θ Η House
Bartlett, Alice Janet, Arts	<i>Orono</i>	74 North Main Street
Bean, Bryant Chapman, Arts	<i>Bryant Pond</i>	A X A House
Beaton, Clifford Merrill, Ch.Eng.	<i>Bangor</i>	Bucksport
Beaton, Donald Edgar, Arts	<i>Bangor</i>	218 Pine Street, Bangor
Beaton, Robert John, Wc.	<i>Stoughton, Mass.</i>	Σ N House
Beckmann, William Richard, Wc.	<i>Brooklyn, N. Y.</i>	Σ A E House
Beegel, Paul Milton, Jr., Arts	<i>Bangor</i>	178 State Street, Bangor
Belknap, Martha Chapman, Arts	<i>Damariscotta</i>	87 Main Street
Benjamin, Charles Smith, Jr., Arts	<i>Waldwick, N. J.</i>	Σ X House
Berg, Shirley Belle, Arts	<i>Bangor</i>	56 Fern Street, Bangor
Berry, Jeannette Elizabeth, Arts	<i>Houlton</i>	Colvin Hall
Bickford, Frances Elizabeth, He.	<i>Madison</i>	The Elms
Bigelson, Arthur, Ee.	<i>Bangor</i>	142 York Street, Bangor

Billings, Percy Glenwood, Jr., Agr.Eng.	Bangor	20 Sixth Street, Bangor
Blake, Clayton Purington, Me.	Portland	25 Grove Street
Blake, Clifford Arnold, Fm.	Cornish	Φ M Δ House
Blake, Cora Josephine, He.	LaGrange	40 College Road
Blanchard, Bertrand Everett, Fm.	Dover-Foxcroft	Φ H K House
Blanchard, Gordon Chapman, Me.	Swampscott, Mass.	Λ X A House
Blanchard, Kenneth Stephen, Ce.	Blanchard	Φ H K House
Blanchard, Russell Philip, Fm.	Mars Hill	Φ H K House
Blethen, John, Jr., Arts	Rockland	88 Park Street
Bonacorso, Edward Samuel, Arts	Everett, Mass.	Σ X House
Bonney, Alton Grover, Jr., Eng.Ps.	Portland	University Cabin
Bower, John Allen, Me.	Auburn	Δ T Δ House
Bowers, Durant, Jr., Ee.	Bangor	216 Pine Street, Bangor
Bowser, Robert Vance, Ee.	Reading, Mass.	Φ K Σ House
Boyd, Arthur, Fm.	Milford	Milford
Bradeen, Doris Mae, He.	Millinocket	Balentine Hall
Brandt, Robert Alfred, Ph.	Brookline, Mass.	83 Main Street
Brewer, Dorothy Frances, He.	Bar Harbor	Balentine Hall
Brewster, Frank Eugene, Ch.Eng.	South Portland	Φ H K House
Brink, Robert Morris, Ee.	Cape Elizabeth	380 College Road
Brown, Donald Vaughn, Ch.Eng.	Fairfield	Σ N House
Brown, Emmons Pray, Ch.Eng.	Mt. Desert	Θ X House
Brown, Harvey Weston, Arts	Mt. Desert	29 Forest Avenue
Browne, Robert Irving, Fm.	Bethel	H. H. Hall
Burger, Francis William, Ch.Eng.	Lynn, Mass.	B Θ II House
Burke, John Edward, Me.	Bangor	State Street, Bangor
Burleigh, Sarah Elizabeth, Arts	Augusta	Balentine Hall
Burnett, John McGregor, Jr., Ee.	Skowhegan	384 College Road
Burnham, Reuben Sylvester, Me.	West Scarboro	K Σ House
Burpee, Frederick Todd, Wc.	Orono	Bennoch Street
Burpee, Howard Lemuel, Ht.	Orono	Bennoch Street
Bushnell, Cornelius Huntington, Jr. Ch.Eng.	Whitefield	Θ X House
Butler, Wendell Taylor, Ch.Eng.	Springvale	23 Spencer Lane
Butterfield, Wilfred Irving, Jr., Arts	Bangor	147 Maple Street, Bangor
Carter, Genevieve Elizabeth, He.	Ellsworth	South Hall
Carter, John Merrill, Fm.	Etna	Φ M Δ House
Carter, Leland Franklin, Ce.	Freeport	Σ N House
Chadbourne, Ernest Donald, Fm.	East Baldwin	A T Ω House

Chandler, John Everett, Arts	Winthrop	17 Margin Street
Chase, George Oscar, Arts	Millinocket	Φ K Σ House
Chick, Richard Loring, Fy.	South Berwick	Φ H K House
Christensen, William Mathias, Jr., Me.	Auburn	Λ X Λ House
Church, James Elwood, Jr., Arts	Gardiner	Δ T Δ House
Chute, Robert Eugene, Me.	Norway	University Cabin
Clark, Alton Willis, Arts	Kennebunk	Φ H K House
Clark, William Bradbury, Ec.	Lewiston	Σ A E House
Cleverly, Muriel Beatrice, Arts	Hull, Mass.	The Elms
Cliff, Margaret York, Arts	Presque Isle	Balentine Hall
Coffin, Richard Hale, Ec.	Bangor	25 West Street, Bangor
Cohen, Jozef Bertram, Arts	Roxbury, Mass.	12 Pleasant Street
Colpitts, Bernard Eugene, Me.	Saco	Λ T Ω House
Conti, Rudolph Francis, Arts	Arlington, Mass.	K Σ House
Cope, Harry, Ch.Eng.	Portland	
		242 Hancock Street, Bangor
Cousins, Florence Evelyn, Arts	Old Town	
		94 North Fourth Street, Old Town
Cowie, Douglas Brann, Pa.	Rockville Centre, N. Y.	
		370 College Road
Cowin, Mary Alexia, He.	Orono	8 Elm Street
Cox, William Sylvester, Me.	Orono	3 Brook Street
Cranch, Richard Christopher, Fy.	New Rochelle, N. Y.	Φ K Σ House
Crapo, Arthur Chester, Ec.	North Dartmouth, Mass.	
		Φ H K House
Crocker, Guy Joseph, Ch.Eng.	Vanceboro	25 Grove Street
Crossland, Lloyd Byron, Ge.	Mexico	University Cabin
Crowley, Nathaniel Joseph, Arts	Dover-Foxcroft	H. H. Hall
Cummings, Vivian Eulalie, He.	LaGrange	24 Oak Street
Cunningham, George Barker, Arts	Old Town	
		36 Veazie Street, Old Town
Curtis, Boyd Alvin, Ag.	Easton	Λ Γ P House
Curtis, Raymond Wilson, Jr., Arts	Marblehead, Mass.	Δ T Δ House
Cushman, George Bernard, Dt.	Bryant Pond	88 Park Street
Cyr, Joseph Wilfrid, Ag.	Lille	21 A Mill Street
Dale, Ralph Orlando, Jr., Eng.Ps.	Bath	Φ Γ Δ House
Dalrymple, Robert Anthony, Arts	Framingham, Mass.	Φ Γ Δ House
Danforth, Paul Dow, Me.	Old Town	
		152 Middle Street, Old Town

Dangler, Edgar William, Wc.
 Davis, Carl Forrest, Arts
 Davis, Carrol Dwight, Ee.
 Davis, Charles Ralph, Me.

Davis, Donald Hasbrouck, Ch.Eng.
 Davis, Erna Eliza, He.
 Davis, Robert Thomas, Arts

Day, McClure, An.
 Day, Richard Beston, An.
 Day, Robert Hartson, Dh.
 deBarros, Richard John, Bt. & En.

Deering, Harry Lincoln, Ee.
 Deering, Robert Bowman, Ht.
 Denesuk, Nicholas, Fy.
 Dennis, Eleanor Blanche, Arts
 deRoth, Gerardus Cabbie, Fy.

DeShon, Howard Clifford, Ee.
 Dickens, Thomas Daniel, Wc.
 Dillon, John Michael, Arts
 Dimitre, Margaret Lorraine, Arts
 Dimmer, John Patrick, Jr., Ge.
 Dixon, Elinor Louise, Arts
 Dobrow, Jordan, Arts
 Dodge, David Thaxter, An.
 Dole, Arthur Sidney, Jr., Arts
 Dole, Richard Dresser, Me.
 Dorr, Donald Eugene, Wc.
 Dow, Clarence Pearl, Fy.
 Dow, Leslie Alexander, Ch.Eng.
 Dow, Levi Sewell, Wc.
 Downes, Laurence Maxwell, Me.
 Doyle, Margaret Eleineen, Arts
 Duggan, Lloyd Bernard, Arts
 Duncan, Carl Porter, Arts
 Dunning, Clement Stevens, An.

Brooklyn, N. Y. 50 Pine Street
 Milo 1 Mill Street Lane
 Solon 88 Park Street
 Old Town
 11 North Fourth Street,
 Old Town

Longmeadow, Mass. Φ K Σ House
 Bucksport Balentine Hall
 Old Town
 202 North Brunswick Street,
 Old Town

Damariscotta Δ T Δ House
 Damariscotta Δ T Δ House
 Bryant Pond 88 Park Street
 Nantucket Island, Mass.
 87 Park Street

Bath 59 Park Street
 Orono 160 College Road
 Peabody, Mass. 23 Spencer Lane
 Passadumkeag South Hall
 Lynbrook, L. I., N. Y.
 University Cabin

Machias Φ H K House
 Camden 395 College Road
 Naugatuck, Conn. Σ X House
 Calais Balentine Hall
 Portland 56 North Main Street
 South Berwick Balentine Hall
 Chelsea, Mass. T E Φ House
 Bangor Ohio Street, Bangor
 Bangor R. #2, Bangor
 Sebago Lake 25 Grove Street
 Ridlonville Φ K Σ House
 Charleston 208 Elm Street, Bangor
 Stillwater Stillwater
 Fort Kent Φ H K House
 Bangor 65 Grant Street, Bangor
 Caribou Balentine Hall
 Kennebunk 26 Peters Street
 Presque Isle Φ H K House
 North Harpswell 88 Park Street

Dyer, Robert Hall, Wc.

Dyer, Samuel, Jr., Me.

Eastman, Ruth Elizabeth, Arts

Edgecomb, Wilbur Robert, Me.

Edmunds, Edward Hawksley, Arts

Ehrenfried, Paul, Arts

Eldridge, John William, Ch.Eng.

Elliott, Gerald Edward, Agr.Eng.

Ellis, Cutler Lynwood, Dh.

Elwell, Ralph Horatio, An.

Emery, Lawrence Woodford, Arts

Emmons, Barbara Wentworth, Arts

Evans, William Henry, Ch.Eng.

Fallon, Christopher, Arts

Farnham, Barbara May, Arts

Fassett, Carol Lincoln, Arts

Feinberg, Robert Malcolm, Arts

Field, Kenneth Adelbert, Me.

Fielding, Richard Norman, Arts

Findlen, Herbert, Ag.

Fink, John Edward, Wc.

Fish, Warren Hamlin, Arts

FitzPatrick, John Dowd, Arts

Fortier, Robert Francis, Arts

Foster, John Warren, Fy.

Foster, Orsan Junior, Me.

Francis, Wallace Robert, Me.

Franz, Richard Oscar, Fy.

Freedman, Stanley Philip, Ch.Eng.

French, John Scates, Arts

French, Marjorie Violet, He.

French, Maynard Gardner, Arts

French, Robert Joseph, Arts

Gabrielian, Henry, Me.

Galentine, Paul Guy, Ec.

Gallant, Francis Louis, Me.

Turner College Road, Star Route

Framingham, Mass. A X A House

Augusta

The Elms

Rumford

K Σ House

Mars Hill

85 Main Street

Lewiston

Φ K Σ House

Orrington

Φ Γ Δ House

Fort Fairfield

Φ H K House

Rangely

102 Mill Street

Brooks

25 Grove Street

Reading, Mass.

Σ X House

Worcester, Mass.

The Elms

Manhasset, L. I., N. Y.

K Σ House

Augusta

Φ Γ Δ House

Bangor

Ohio Street, Bangor

Cambridge, Mass.

The Elms

Portland

T E Φ House

Hampden

Hampden

Malden, Mass.

K Σ House

Fort Fairfield

A Γ P House

Brooklyn, N. Y.

Σ A E House

Concord, Mass.

Σ A E House

Marblehead, Mass.

Σ A E House

Orono

43 Broadway

Huntington Woods, Mich.

Stillwater

Baring

56 North Main Street

Darien, Conn.

Σ A E House

Thornwood, N. Y.

6 Mill Street

Portland

12 Park Street

Pleasantville, N. Y.

85 Main Street

Winthrop

Balentine Hall

Livermore Falls

A X A House

Guilford

Σ X House

Worcester, Mass. 60 Forest Avenue

Portland

B Θ II House

Bangor

34 East Summer Street, Bangor

Gannon, Henry Francis, Fy.

Garfinkle, Harold, Arts

Garsoe, William Joseph, Ph.

Gatcomb, Morrill Ashley, Arts

Gay, Raymond Francis, Jr., Me.

Geary, Edward Joseph, Arts

Gilman, Dorothy Janet, He.

Gilman, Manuel Alan, Ph.

Gilman, William Pattangall, Ph.

Ginsburg, Saul, Ge.

Gleason, Eleanor Lou, He.

Gleason, Elene May, He.

Glider, Victor, Fy.

Glover, John White, Jr., Ee.

Goldberg, Edward Leo, Arts

Goldsmith, Alvin Robbins, Eng.Ps.

Goodwin, Jean Elizabeth, He.

Gordon, Hyma Alton, Fm.

Gorman, John Carroll, Fy.

Goulette, Gerard Alphonse, Arts

Gowen, Barbara Muirhead, Arts

Graham, Benjamin Franklin, Fy.

Graves, Richard Stayner, Me.

Greenleaf, Laurie Jones, Eng.Ps.

Griffee, Donald Gordon, Me.

Guard, Charles Atherton, Fm.

Haffner, Rudolph Eric, Arts

Hale, Titus Stuart, Me.

Hall, Elden David, Jr., Ce.

Hamilton, Violet Mary-Anne, Arts

Haney, Ralph William, Ee.

Harrington, Edgar Bernard, Fm.

Haskell, Gwendolyn Estelle, Arts

Hastings, Virginia Kittridge, He.

Hathaway, Florence Adelle, Arts

Hatt, Roy James, Arts

Hayes, Helen Virginia, He.

Healy, Robert Morris, Arts

New Rochelle, N. Y.

395 College Road

Mattapan, Mass. T E Φ House

Portland K Σ House

East Machias 85 Main Street

Stony Creek, Conn. Λ X A House

Lewiston Δ T Δ House

Porter 68½ Main Street

Forest Hills, N. Y. 35 Grove Street

Augusta B Θ Π House

Portland 12 Park Street

Union Balentine Hall

Brewer

82 North Main Street, Brewer

Hartford, Conn. 7 Forest Avenue

Orono 265 Main Street

Lynn, Mass. 15 Middle Street

Bangor 6 Palm Street, Bangor

Caribou Balentine Hall

Lincoln Center 25 Grove Street

Wellesley, Mass. Σ X House

Dexter 395 College Road

Saco Colvin Hall

Milton, Mass. Φ K Σ House

Chebeague Island Δ T Δ House

Auburn Φ Γ Δ House

Orono 55 Bennoch Street

Honolulu, T. H. Φ M Δ House

Portland 3 Park Street

Portland, Conn. Φ K Σ House

Farmington B Θ Π House

Pittsfield Colvin Hall

Bangor 176 Ohio Street, Bangor

Patten Φ H K House

Lincoln South Hall

Bangor 61 Congress Street, Bangor

Bangor Hammond Street, Bangor

Brewer R. #5, Brewer

Bangor 15 Stone Street, Bangor

Augusta B Θ Π House

Henderson, Edward Anson, Ce.
 Henderson, Sherwood William, Me.
 Hepburn, William George, Me.
 Herrick, Carleton Sewall, Jr., Arts

Hersey, Richard Winslow, Arts
 Higgins, Irwin Raymond, Bc.
 Higgins, Joseph Scott, Ph.
 Hill, Rebecca, Arts
 Hines, Marion Ruth, Arts
 Hoor, Edmund William, Arts
 Hodgkins, Earl Littlefield, Ce.
 Hodgkins, Winfield Chester, Ch.Eng.
 Hogan, Barbara Bates, Arts
 Holmes, Edna Frances, He.
 Holmes, Robert Goodwin, Ec.
 Hood, Natalie Ruth, Arts
 Hopkins Harry Saunders, Ag.
 Hopkinson, David Bradford, Me.
 Horn, Gilman David, Ch.Eng.
 Hornbeck, Hulet Clark, Fy.
 Horton, James Bartlett, Ch.Eng.

Houghton, John William, Fm.
 Houston, John, Arts
 Howe, Allan Morton, Ce.
 Hurd, Ellen Rae, Arts
 Hurwitz, Aaron Sumner, Arts

Ingraham, Mark Whitmore, Ce.
 Irvine, William Lloyd, Arts
 Jacobs, Edith, Arts
 Johnson, Allan Wilson, Arts
 Johnson, Barbara Elaine, Arts
 Johnson, Donald Keith, Me.
 Johnson, Herbert Harrison, Fy.
 Johnson, Russell Goodwin, Me.
 Jones, Clarence Wayland, Ec.
 Jose, Russell David, Fy.

Kaplan, Harold Irving, Me.

Houlton 148 Main Street
 Anson 25 Grove Street
 South Portland A X A House
 South Brewer

61 Elm Street, South Brewer
 Portland 6 Mill Street
 Mapleton 25 Grove Street
 Dennysville Φ K Σ House
 Machias Balentine Hall
 Middletown, Conn. Balentine Hall
 Old Orchard Beach 28 Main Street
 Northeast Harbor Σ A E House
 Bar Harbor 80 North Main Street
 Bath Balentine Hall
 Limerick South Hall
 Guilford Σ X House
 New Gloucester Balentine Hall
 North Brooksville 12 Park Street
 Portland Φ M Δ House
 Portland Φ H K House
 Bloomfield, N. J. 45 Mill Street
 Brewer

113 Chamberlain Street, Brewer
 Fort Fairfield Φ H K House
 Guilford Σ X House
 Cooper Φ M Δ House
 Orono 82 Main Street
 Roxbury, Mass. 30 Crosby Street

Rockport College Road, Star Route
 Framingham, Mass. Φ Γ Δ House
 West Baldwin South Hall
 Poland Φ Γ Δ House
 Lincolnville South Hall
 Gardiner University Cabin
 Onawa College Road
 Sanford A T Ω House
 Rumford Σ A E House
 Waterville A Γ P House

Nahant, Mass. 30 Crosby Street

Karczmarczyk, Joseph, Arts	Ludlow, Mass.	Σ A E House
Kelley, Robert Edward, Ee.	Lisbon Falls	Φ M Δ House
Kelso, Frederick John, Ch.Eng.	Portland	395 College Road
Keniston, Charles Thomas, Eng.Ps.	Bridgton	University Cabin
Kenney, James Francis, Jr., Arts	Howland	36 Grove Street
Kierstead, Edward Stevens, Fm.	Bucksport	Σ X House
Kilpatrick, Donald Murray, Fm.	Presque Isle	Φ H K House
Kimball, Charles Napier Boyer, Fm.	Bridgewater	20 Hamlin Street
Kimball, Dean Cushman, Fy.	Beverly, Mass.	27 Myrtle Street
Kimball, Gerald Winston, Fm.	Bangor	R.F.D. #7, Bangor
King, Hazel Thelma, He.	Saco	South Hall
King, Jane, He.	Ogunquit	Balentine Hall
King, Phyllis Muriel, Arts	Harpswell Center	South Hall
Kingsley, Cortna Mae, Arts	Strong	Colvin Hall
Knaut, Paul Allen, Jr., Bc.	Quincy, Mass.	380 College Road
Koehler, Audrey Mae, He.	Orono	430 College Road
Koialovitch, Frederick Charles, Me.	Waterville	A T Ω House
Kopelow, Lillian Marion, Arts	Bangor	196 Harlow Street, Bangor
Lawry, Otis Charles, Me.	Fairfield	B Θ Π House
Leavitt, Booth Gilman, Ch.Eng.	Madison	University Cabin
Leavitt, Laurence Gilmore, Ch.Eng.	Orono	7 Park Street
Leek, Spencer Simmons, Fm.	Bangor	61 Hersey Avenue, Bangor
Leger, Eugene, Me.	Newton Centre, Mass.	K Σ House
Levene, Victor Eugene, Ht.	Chelsea, Mass.	15 Middle Street
Lewis, Beulah Theresa, He.	Newport	Colvin Hall
Libby, Marion Jordan, He.	Milford	Milford
Libby, Philip Judson, Ce.	Freedom	Δ T Δ House
Limberis, George Peter, Arts	Bangor	21 First Street, Bangor
Linnell, Sally Wilder, Arts	Pembroke	The Elms
Lipman, Henry Harris, Arts	Chelsea, Mass.	T E Φ House
Littlefield, Waldemar Vickery, Me.	Brewer	Φ K Σ House
Lobley, Frank Merrill, Arts	Bangor	498 Main Street, Bangor
Lombard, Virginia Rae, Arts	Meddybemps	The Elms
Long, Lois, He.	Melrose, Mass.	Colvin Hall
Loring, Charles Brooks, Ch.Eng.	Yarmouth	35 Grove Street
Loring, Ruth Eileen, He.	Orono	79 Bennoch Street
Lovley, Vaughn True, Ag.	Presque Isle	25 Grove Street
Lown, Bernard, Arts	Lewiston	380 College Road
Lundgren, Marion Christene, Arts	New Sweden	South Hall
Luther, Radford Weston, Me.	Hartford, Conn.	69 Forest Avenue

McCarthy, Thomas Edward, Arts	Elmhurst, L. I., N. Y.
	14 Middle Street
McConnell, Mary Elizabeth, He.	Portage South Hall
McGraw, Richard Bernard, Me.	Portland Θ X House
McKay, Donald Hill, Me.	Old Town
	64 Bradbury Street, Old Town
McKenney, David Harrison, Arts	Jay Θ X House
McLean, Harris Linwood, Jr., Arts	Bar Harbor B Θ II House
McLeary, Robert Butler, Jr., Ed.	Farmington 25 Grove Street
MacLeod, Leo Mansell, Arts	Bangor 21 Middle Street, Bangor
Macomber, Heywood Brown, Jr., Me.	Needham, Mass. A X A House
Malcolm, Ian, Fy.	Charlemont, Mass. 77 Mill Street
Mank, Miles Boggs, Arts	Augusta B Θ II House
Marriner, Donald Eugene, Ch.Eng.	Rockland K Σ House
Marston, Arthur Adair, By.	Newburyport, Mass. K Σ House
Martin, Lyle Lynwood, Ce.	St. Albans University Cabin
Matthews, Royal Russell, Me.	Lisbon Falls A T Ω House
Maurice, David, Arts	Dorchester, Mass. T E Φ House
May, Virginia Edith, Arts	Wellesley Farms, Mass.
	Balentine Hall
Mayo, John Hildreth, Fm.	Cumberland Center Σ X House
Medina, John Warren, Me.	Waltham, Mass. Φ K Σ House
Mehann, Helen Winifred, He.	Bangor
	29 Harthorn Avenue, Bangor
Merrill, Howard Weld, Me.	Old Town
	18 High Street, Old Town
Mertens, Eugene George, Arts	Yonkers, N. Y. Σ A E House
Messer, Marguerite Sylvia, Arts	Waban, Mass. Balentine Hall
Millar, Edward Reid, Me.	Leonias, N. J. Φ II K House
Miniutti, Gloria Mary, Arts	North Berwick Balentine Hall
Miniutti, Victor Pasquale, Fy.	North Berwick 77 Mill Street
Minott, Mary Elizabeth, He.	South Portland Colvin Hall
Mitchell, Frederick Arthur, Ee.	Kingfield 25 Grove Street
Moody, Hope, He.	Lincoln South Hall
Moore, Thomas Fogg, Arts	Biddeford Φ K Σ House
Morris, Sumner David, Pa.	Guilford 45 Maple Street, Bangor
Morrison, James Linton, Ch.Eng.	Worcester, Mass. A X A House
Moulton, Margaret, Arts	Bangor Balentine Hall
Moulton, Parker Nash, Jr., Arts	Wareham, Mass. Σ A E House
Mullen, Joseph Norman, Arts	Houlton Φ Γ Δ House
Mullin, George Albert, Arts	Holbrook, Mass. A X A House

Mulvany, Jane, Arts
 Murdock, Henry Thayer, Ee.
 Murphy, George Vincent, Ee.

Nichols, Clarence Sidney, Ce.

Olsen, Einar Arthur, Fy.

Page, Jane Augusta, Arts
 Paine, Anna Eleanor, Arts
 Patterson, William, Jr., Eng.Ps.
 Peabody, Ruth Frances, Arts
 Perry, Barbara Louise, Arts
 Perry, Frederick Mauran, Ge.
 Perry, Lionel Alvah, Fm.
 Perry, William Louis, Arts
 Peterson, Clarence Ames, Fm.
 Peterson, Frank Harvey, Me.
 Petterson, Leonard Martin, Arts
 Phelan, Paul Henry, Arts
 Philbrook, Nancy Clara, He.
 Phillips, Margaret Goldie, He.
 Phillips, Stanley Gilkey, Jr., Ce.
 Pierce, Martha Elizabeth, Arts
 Pinette, Marie Cecile, Arts
 Piper, George Francis, Me.
 Pitman, Arnold William, Ht.
 Pitts, Edgar Thurlow, Arts
 Pollock, Thomas Edwin, Arts

Potter, Frank Elwood, Dt.
 Pratt, Darrell Bradford, By.
 Pratt, Muriel Elizabeth, He.
 Pratt, Winthrop Bowman, Eng.Ps.
 Priest, Clifford Alvin, Jr., Fy.
 Pulsifer, Allen Hallett, Me.
 Putnam, Aaron Hacker, Me.

Ramsdell, Gordon Estey, Dh.
 Ramsey, Raymond Edward, Me.

Bangor 57 Pearl Street, Bangor
 Kennebunk Φ H K House
 Bar Harbor 33 Bennoch Street

Augusta Λ X A House

Gloucester, Mass. 395 College Road

Newcastle Balentine Hall
 Bangor The Elms
 Thornwood, N. Y. 17 Margin Street
 Houlton Balentine Hall
 Houlton The Elms
 Rockland 15 Park Street
 Sherman Mills 26 Island Avenue
 Portland 25 Grove Street
 Rockland K Σ House
 Vinalhaven K Σ House
 Deep River, Conn. A T Ω House
 Calais Δ T Δ House
 Shelburne, N. H. Balentine Hall
 Ellsworth The Elms
 Melrose, Mass. A T Ω House
 Guilford South Hall
 Guilford 20 Forest Avenue
 Biddeford A T Ω House
 Appleton 25 Grove Street
 Stonington 6 Mill Street
 West Somerville, Mass.

K Σ House
 Sabattus A Γ P House
 Millinocket Σ N House
 Oxford The Elms
 Arlington, Mass. 85 Main Street
 Bradford, Mass. 29 Forest Avenue
 Poland Λ X A House
 Houlton K Σ House

Ellsworth 25 Grove Street
 Bath Φ M Δ House

Rand, Ardyth Nedda, He.
 Randall, Dorothy Edith, Arts
 Randall, Warren Batchelder, Arts
 Rankin, Austin Edwin, Eng.Ps.
 Reed, James Alden, Me.
 Reed, John Hathaway, Fm.
 Reggio, Andre William, Jr., Fy.
 Remick, Charles Edward, Ph.
 Richards, Lee Warren, Jr., Arts
 Riese, George Augustus, Me.
 Ripanti, Nello Frank, Ch.Eng.
 Roben, George Douglas, Ch.Eng.
 Roberts, Daniel Cogswell, 2nd, Pa.
 Roberts, James Herbert, Arts
 Roberts, Reginald Thomas, Me.
 Robertson, Edward Norris, 2nd, Ce.
 Robertson, Frank Cole, Fy.
 Robie, John William, Arts
 Robinson, Preston Earl, Ce.

Roche, John Charnley, Pa.
 Rodman, Arlene Ruth, Arts
 Rollins, Ann, Arts
 Rome, Bernard Phillip, Arts
 Ross, Annie Estella, He.
 Ross, Donald Philip, Ce.
 Rourke, Alice Virginia, Arts
 Rowe, Barbara Marie, Arts
 Rowe, Harlan Orrington, Ph.
 Rowell, Lorraine Alberta, Arts
 Roy, Robert Francis, Ch.Eng.
 Royal, Mary Arlyne, He.
 Rushworth, Cornell Cameron, Ch.Eng.
 Russell, James Louis, Arts
 Ryan, Betty Jane, Arts
 Ryan, Patricia Margaret, Arts

Sanborn, Bert Sumner, Fy.

Savage, Barbara, Arts
 Scammon, Elizabeth Rogers, He.

Sherman Mills 15 Pierce Street
Oakland South Hall
Lewiston Φ K Σ House
Camden College Road, Star Route
Boothbay University Cabin
Fort Fairfield Φ H K House
Chestnut Hill, Mass. Σ X House
Ellsworth 25 Grove Street
Augusta 38 Grove Street
Arlington, Mass. K Σ House
Hopedale, Mass. 25 Grove Street
Houlton K Σ House
Peoria, Ill. K Σ House
Belfast 12½ Pleasant Street
Locke Mills Φ M Δ House
Bethel 25 Grove Street
Leominster, Mass. 99 Mill Street
Augusta B Θ Π House
Bangor

99 Webster Avenue, Bangor
Torrington, Conn. K Σ House
Bangor Balentine Hall
Ellsworth Balentine Hall
Brookline, Mass. T E Φ House
West Lubec North Hall
Orono 56 Park Street
Winthrop South Hall
Rumford The Elms
East Stoncham 88 Park Street
Saco South Hall
Norway Σ X House
Orono Colvin Hall
Madison University Cabin
Bangor 193 Warren Street, Bangor
Woolwich Balentine Hall
Bangor 82 Cedar Street, Bangor

North Uxbridge, Mass.

Σ N House
Bangor 97 Broadway, Bangor
Owls Head Balentine Hall

Schaible, William John, Ch.Eng.

Scher, Martin Mortimer, Pa.

Schertzer, Edward Abraham, Arts

Schillig, Nancy Magdalene, He.

Schmidt, Francis Victor, Wc.

Sewall, Calvin Brackett, Arts

Shackelford, Philip Torrey, Arts

Simmons, Eleanor Rose, Arts

Sinclair, Richard Montague, Pa.

Sleeper, Thomas Till, Me.

Slocum, George Chisholm, Dt.

Small, Parker William, Fm.

Small, Robert Edward, Ee.

Smith, Elmer Vincent, Me.

Smith, George Henry, Me.

Smith, James Frederick, Ce.

Smith, James John, Fy.

Spear, Harlan Sylvester, Wc.

Spear, Jasper Adriel, Arts

Spencer, Beverly Wellington, Arts

Stahl, Jacob Irving, Arts

Stevens, Virginia Charlotte, He.

Stewart, Loren Francis, Ch.Eng.

Stone, Beth Ward, Arts

Stone, Lois Louisa, Arts

Stone, Theodore Miles, Ht.

Striar, David Philip, Me.

Susi, Roosevelt Theodore, Arts

Suslavich, John Joseph, Me.

Svedeman, Stuart Frank, Fy.

Swett, Arthur Howard, Arts

Sylvester, Neva Lorraine, Arts

Talbot, William Burrall, Arts

Tanner, Edward Russell, Arts

Tarbox, Fred Snow, Me.

Taylor, Charles John, Arts

East Northport, L. I., N. Y.

395 College Road

New York, N. Y. 36 Grove Street

Somerville, Mass. 15 Middle Street

Bangor 8 Whitney Street, Bangor

Paterson, N. J. Σ X House

Wilton 395 College Road

South Hamilton, Mass. Σ N House

Union South Hall

Holyoke, Mass. Σ X House

Swampscott, Mass. Λ X A House

Worcester, Mass. 85 Main Street

South Portland Φ M Δ House

York Village Σ X House

Newport Σ X House

Waltham, Mass. K Σ House

Richmond, Va. Σ N House

South Portland 7 Summer Street

Warren 14 Middle Street

Warren 14 Middle Street

Great Works Great Works

Peabody, Mass. T E Φ House

Old Town

190 North Fourth Street,

Old Town

Orono A T Ω House

Detroit The Elms

Clinton, Mass. Balentine Hall

Milford Milford

Bangor 14 Adams Street, Bangor

Pittsfield 395 College Road

Hudson, Mass. Φ I Δ House

East Milton, Mass.

395 College Road

Newport 43 Mill Street

Deer Isle The Elms

East Machias K Σ House

Jenkintown, Pa. Σ X House

Biddeford K Σ House

Bangor

15 McKinley Street, Bangor

Teague, Ella Elizabeth, He.	North Turner	Colvin Hall
Teall, Arthur Leu, Ee.	Glen Ridge, N. J.	Φ Γ Δ House
Theriault, Mary Robertine, Arts	Old Town	
	197 Center Street, Old Town	
Thomas, Raymond Perle, Me.	Old Town	
	344 South Main Street, Old Town	
Thompson, Barbara Millicent, Arts	Brownfield	The Elms
Thompson, Elmer Patterson, Jr., Me.	Brownfield	K Σ House
Thompson, Gordon John, Me.	Rockland	83 Park Street
Thompson, Keith Marston, Fm.	Limestone	Φ Η K House
Thorndike, Clara Helen, He.	Camden	South Hall
Thorne, Cherrie Madeline, He.	St. Albans	Balentine Hall
Thornton, Seth Winfield, Ch.	Belfast	12½ Pleasant Street
Thurlow, Priscilla Emery, He.	Buckfield	Balentine Hall
Towne, Ruth Anna, Arts	East Dover	South Hall
Tracy, John Paul, Arts	Waterville	430 College Road
Tukey, Spaulding Murray, Ch.	Cape Elizabeth	K Σ House
VanHoesen, Ellis Rugg, Arts	Delmar, N. Y.	Δ T Δ House
Verenis, Peter Constantine, Arts	Norway	Φ M Δ House
Vickery, Charles Nelson, Arts	Pittsfield	14 Park Street
Ward, Eleanor Louise, Arts	Fitchburg, Mass.	The Elms
Warren, Betsy Trott, Arts	Skowhegan	Colvin Hall
Warren, Dorothy Lois, Arts	Lubec	Balentine Hall
Warren, Harold Ernest, Ch.Eng.	Lisbon Falls	Φ K Σ House
Warren, Richard Lucius, Ee.	Portland	A X A House
Washburn, Robert Rider, Fm.	Monmouth	395 College Road
Waterman, George Walter, Me.	New Gloucester	A X A House
Watson, John Thaxter, Arts	Bangor	104 Poplar Street, Bangor
Watson, Robert John, Arts	Farmington	A T Ω House
Weatherby, Beverly Donald, Fy.	Grand Lake Stream	Σ N House
Webber, George Franklin, Me.	Pittsfield	27 Myrtle Street
Webster, Arlene Janet, He.	Auburndale, Mass.	Balentine Hall
Welch, Charles Franklin, Me.	Pittsfield	85 Main Street
Wellcome, Frank Lindsay, Jr., Eng.Ps.	Cumberland Mills	K Σ House
Weston, Donald Edward, Ee.	Portland	Φ K Σ House
Weston, Virginia, He.	Dover-Foxcroft	Balentine Hall
Weymouth, Helen Moore, Arts	Waterville	Balentine Hall
Wheeler, Nathaniel Harthorn, Me.	Waterville	7 Summer Street

FRESHMEN

399

White, Mary Louise, Arts	<i>Orono</i>	48 Forest Avenue
White, Mildred Cecelia, Arts	<i>Costigan</i>	Costigan
White, Roger Edward, Eng.Ps.	<i>South Portland</i>	25 Grove Street
Whited, Harris Goodwin, Ag.	<i>Bridgewater</i>	Φ H K House
Whitney, Richard Walker, Arts	<i>Marblehead, Mass.</i>	Σ A E House
Wiedmer, Jack Bernard, Me.	<i>Glen Head, N. Y.</i>	85 Main Street
Wight, Kent Mansfield, Bc.	<i>Madison</i>	74 North Main Street
Wight, Muriel Leone, Arts	<i>Madison</i>	74 North Main Street
Willetts, Fred Morgan, Dh.	<i>Cheshire, Conn.</i>	Stillwater
Wilson, Raymond Edwin, Ch.Eng.	<i>Madison</i>	Σ A E House
Wing, Morris Reynolds, Fy.	<i>Bingham</i>	7 Forest Avenue
Wing, Norman Adelbert, An.	<i>Monmouth</i>	395 College Road
Winslow, Paul Lee, Ce.	<i>Norridgewock</i>	384 College Road
Winters, Gordon Henry, Ce.	<i>Waterville</i>	K Σ House
Wood, Edward Henry, Fy.	<i>Berwick</i>	Σ A E House
Woodbury, Ralph Eugene, Ch.Eng.	<i>Portland</i>	Σ X House
Woodward, Janice Dean, He.	<i>Auburn</i>	South Hall
Worster, Arthur Roscoe, Me.	<i>Madison</i>	University Cabin
Young, Mary Alice, Arts	<i>Winterport</i>	South Hall

UPPERCLASS STUDENTS CONDITIONED FOR ADMISSION

Doten, Nathaniel Miles, Jr., Py.	('40)	<i>Brookline, Mass.</i>	University Cabin
Graves, Robert Harrison, Zo.	('41)	<i>Plattsburg, N. Y.</i>	Φ M Δ House

FRESHMEN

Abbott, Herschel George, Fy.	<i>Bryant Pond</i>	210 H. H. Hall
Adams, Charles Boswell, Ee.	<i>Kittery</i>	210 H. H. Hall
Adams, Claude Henry, Arts	<i>Houlton</i>	88 Fourth Street, Bangor
Adams, George Franklin, Agr.	<i>West Sumner</i>	401 Oak Hall
Adell, Clinton George, Agr.	<i>Augusta</i>	25 Grove Street
Adler, Joseph, Jr., Arts	<i>Sanford</i>	101 H. H. Hall
Aho, Bruno Elmer, Agr.	<i>Union</i>	6 Kell Street
Albert, Dorothy Elizabeth, He.	<i>Bangor</i>	96 Garland Street, Bangor
Alden, Rachel, Arts	<i>Dover-Foxcroft</i>	North Hall
Aldous, Marion Clair, Fy.	<i>Orono</i>	67 Mill Street

Allan, Rodney Higgins, Agr.
 Ambrose, James Richard, Ch.
 Anderson, Wesley Daniel, Ce.
 Armstrong, Charles Medville, Arts
 Atwood, Stoughton, Ee.
 Austin, Franklin James, Me.
 Austin, John Maynard, Ee.
 Averill, Gerald Philip, Me.

Bacon, Otis Zalmon, Me.
 Bader, Richard George, Fy.
 Bagley, Edward Forrest, Agr.
 Baisley, Thomas Morris, Jr., Fy.
 Balkam, Marshall Edwin, Arts
 Barbeau, Robert Edward, Eng.
 Barrows, Frank Elisha, Jr., Me.
 Barry, Alfred George, Ch.Eng.
 Bartley, Charles Everett, Ch.Eng.

Bartley, Clayton Earl, Agr.
 Bean, Barbara, He.
 Bearce, Elizabeth Talbot, He.
 Bearce, George Donham, Jr., Arts
 Beckman, Harry, Pa.

Beedy, Robert Harlan, Agr.
 Bell, Dorothy Eddith, He.
 Bell, Ellis Irving, Agr.
 Berry, Pearl Eugenia, Arts
 Berry, Roland Edward, Ch.Eng.
 Beverage, Arthur Walter, Jr., Ce.
 Bickford, Warren Herbert, Ch.Eng.
 Birch, Clifford Wadsworth, Jr., Eng.
 Black, Richard Arthur, Ge.
 Blacky, Albert Robert, Fy.
 Blanchard, Charles Nichols, Arts
 Boss, Millard Otis, Me.
 Bouchard, Constance Carmen, He.
 Boulos, Joseph Sebastian, Me.
 Bourque, Joseph Wilfred, Me.
 Bowden, Murray Chandler, Fy.

South Portland 33 Peters Street
 Bangor 64 Earle Avenue, Bangor
 Mars Hill 304 Oak Hall
 Robbinston 210 Oak Hall
 Swampscott, Mass. 306 Oak Hall
 Farmington College Road
 Bethel 102 Oak Hall
 Limerick 9 Forest Avenue

Oakland 25 Grove Street
 Flushing, N. Y. 24 Oak Street
 Albion 7 Kell Street
 Yonkers, N. Y. 309 H. H. Hall
 Calais 60 Park Street
 Bangor R.F.D. #7, Bangor
 Glen Ridge, N. J. 103 H. H. Hall
 Freeport, N. Y. 103 H. H. Hall
 Greenville

67 Congress Street, Bangor
 Presque Isle 26 Island Avenue
 Newport The Elms
 Bucksport The Maples
 Bucksport 212 Oak Hall
 Stewart Manor, N. Y.

33 Bennoch Street
 Turner 32 Pierce Street
 Orono 188 Main Street
 Dennysville 312 H. H. Hall
 Portland The Maples
 Randolph 148 Main Street
 North Haven 212 Oak Hall
 Ogunquit 202 H. H. Hall
 Arlington, Mass. 401 H. H. Hall
 McKinley 307 H. H. Hall
 Waterford, Conn. 211 H. H. Hall
 Brooklyn, N. Y. 201 Oak Hall
 Dover-Foxcroft 311 Oak Hall
 Caribou The Elms
 Portland ♣ Γ Δ House
 Portland 56 North Main Street
 South Penobscot 32 Pierce Street

Brackett, Carlton Maurice, Agr.
 Bradstreet, Cecil Robert, Agr.
 Brady, Walter Hugh, Ee.
 Bragdon, Richard Alton, Arts
 Brawn, Beverly Anne, Arts
 Brawn, Erma Louise, Arts
 Bridges, Arthur Hanson, Ee.
 Bridges, Jennie Mae, Arts
 Bridgford, Alfred Roy, Jr., Ce.
 Brock, William Emery, Ee.
 Brown, Francis Almon, Me.
 Brown, Rachel Elizabeth, Arts
 Brunk, Richard Moulton, Agr.
 Bryant, Hope Goodwin, He.
 Bryant, Phyllis Maude, Arts
 Buck, Howard Mumford, Ce.

Buckley, Oliver Edward, Jr., Ce.
 Burgess, Hollis Tolman, Agr.
 Burnell, Grace Evelyn, Arts
 Burnham, Waldo Harding, Ee.
 Burns, Gilbert Comyn, Jr., Pa.

Butler, Eileen Lucille, Arts
 Butler, Robert Scott, Agr.

Caldwell, David Story, Jr., Fy.
 Came, Barbara Louise, Arts
 Carlson, Arthur Fletcher, Me.
 Carlson, Gilbert Mason, Fy.
 Carroll, Helena Thornton, Arts
 Carter, G. Milton, Arts
 Cassidy, Rita Marie, Arts
 Chadwick, Lewis Peter, Ch.Eng.
 Chandler, Sydney Hobart, Jr., Me
 Chapman, Mary Louise, He.
 Chapman, Robert Loveitt, Me.
 Church, Margaret Elizabeth, He.
 Chute, Philip Conrad, Fy.
 Cilley, Martha Irene, Arts
 Clark, Gladys Bernice, He.

Newport University Cabin
Albion 25 Grove Street
Dorchester, Mass. 206 H. H. Hall
Cumberland Mills 205 Oak Hall
Brunswick The Elms
South Lincoln 20 Forest Avenue
York Village 110 H. H. Hall
Calais North Hall
Leicester, Mass. 112 H. H. Hall
Alfred 407 H. H. Hall
Woodland 24 Oak Street
Skowhegan The Maples
Limington Stillwater
Biddeford The Maples
Madison North Hall
South Willington, Conn.
 210 H. H. Hall
Pittsfield 208 H. H. Hall
Vinalhaven 14 Kell Street
Cumberland Center 65 College Road
East Edgecomb 108 Oak Hall
Newton Centre, Mass.
 204 H. H. Hall
Dover-Foxcroft The Maples
Portland 304 H. H. Hall

South Byfield, Mass. 7 Kell Street
Bar Harbor The Elms
Belfast 109 H. H. Hall
Milton, Mass. 206 Oak Hall
Bangor 1 Whitney Street, Bangor
Caribou 112 H. H. Hall
Bangor 363 State Street, Bangor
Brewer 42 Peters Street
Caribou 88 Park Street
Portland The Maples
Portland 107 Oak Hall
Gardiner The Maples
Naples 384 College Road
Belfast North Hall
Sanford The Maples

Clark, Virginia Dawn, Arts
Claverie, Sumner Abbott, Agr.

Clements, Basil Charles, Agr.
Clifford, Frank Atwood, Me.
Clifford, George Edwin, Me.
Clifford, Thomas Lane, Agr.
Coffin, Charles Edward, Ee.
Coffin, Hazen Bartlett, Me.
Coffin, Mina Alicia, Arts
Coffin, Philip Milton, Jr., Me.
Cohen, Eunice Beatrice, He.

Cole, Barbara, Arts
Cole, Harold Leon, Ee.
Cole, Winona Adelaide, He.

Collins, Richard Wesley, Ch.Eng.
Conant, Calvin Benjamin, Jr., Fy.
Conant, Virginia, Arts
Cook, Wendell Hammond, Agr.
Coons, Melvin Hubert, Ch.Eng.
Corliss, Ray Edward, Agr.
Corliss, Ruth Marie, Arts
Costello, William Henry, Ch.Eng.
Cousins, Frederick Harlan, Me.
Coyne, Edward, Jr., Me.
Cram, Chester David, Jr., Arts
Crane, Talbot Harlow, Arts
Creamer, John James, Ce.
Crosby, Howard Alvah, Ee
Cross, Florence May, Arts
Crossland, Carlton Elmore, Arts
Crossmann, Mary Margaret, Arts
Cullinan, John Pircel, Arts
Cunningham, Dana Roy, Me.
Currier, Philip Lyman, Arts
Cushman, Cedric Russell, Ch.Eng.
Cushman, Helen Vera, He.

Danforth, Phyllis Louise, He.
Daniels, Robert Louis, Ch.Eng.

Orono 505 College Road
West Roxbury, Mass.

51 North Main Street
Winterport 208 H. H. Hall
Dexter 23 Park Street
Boothbay Harbor 108 Oak Hall
South Paris 110 Oak Hall
Bucksport Bucksport
Bangor 639 Broadway, Bangor
Bangor 11 Autumn Street, Bangor
Bangor 41 Boutelle Road, Bangor
Bangor

50 East Summer Street, Bangor
Bryant Pond North Hall
Saco 109 H. H. Hall
Bangor

4 North Park Street, Bangor
Farmington 308 Oak Hall
Auburn 111 H. H. Hall
Monroe 74 North Main Street
Phillips 408 H. H. Hall
Woodland 24 Oak Street
Sherman Mills 401 H. H. Hall
Sherman Mills North Hall
South Portland 111 Oak Hall
East Blue Hill 25 Grove Street
Gorham 401 H. H. Hall
Sanford 111 H. H. Hall
Orono 208 Oak Hall
Hopedale, Mass. 17 Margin Street
Bangor 321 Ohio Street, Bangor
Guilford The Maples
Orono 5 Riverdale
Dover-Foxcroft North Hall
Nortway 404 Oak Hall
Old Town 205 Oak Hall
Wilmington, Del. 111 H. H. Hall
Portland 97 Fern Street, Bangor
Auburn North Hall

Ellsworth The Maples
Belmont, Mass. 380 College Road

Davis, Grant Freethy, Ch.Eng.	Rockland	303 Oak Hall
Day, Harland Elmore, Fy.	Strong	303 Oak Hall
Deering, Helen Marion, He.	Orono	160 College Road
Dempsey, Mary Jane, He.	Old Town	
	29 Elm Street, Old Town	
Detwyler, Richard Elroy, Bt. & En.	Yonkers, N. Y.	38 Grove Street
Devereux, Mark Chandler, Agr.	North Castine	23 Park Street
Dickerson, John Garland, Jr., Me.	Biddeford	303 H. H. Hall
Dingley, Dana Coolidge, Agr.	Farmington	College Road
Dixon, Doris Helen, He.	South Berwick	The Maples
Dodge, George Ira, Jr., Ce.	Dark Harbor	412 H. H. Hall
Dodge, Robert Thompson, Ee.	Bangor	715 Ohio Street, Bangor
Dodge, William Louis, Ch.Eng.	Bangor	143 State Street, Bangor
Donahue, Merrill Lancey, Ch.Eng.	Belfast	211 Oak Hall
Donovan, Frances Marie, Arts	Houlton	The Maples
Dorr, Lawrence Leroy, Agr.	Harrington	25 Grove Street
Dozier, Richard Hughes, Eng.	Rhineland, Wis.	
	33 Bennoch Street	
Drew, Frances, Arts	Sedgwick	The Maples
Duckworth, Edward George, Arts	North Attleboro, Mass.	
	301 H. H. Hall	
Dudley, Dana Forrest, Agr.	Mapleton	103 Oak Hall
Dudley, Willa Arlene, He.	Mapleton	The Maples
Duff, Charles Raymond, Ee.	Rockland	305 H. H. Hall
Dyer, Helen Hall, He.	Bangor	362 French Street, Bangor
Easton, Thomas William, Arts	Bridgton	33 Pond Street
Ebbett, Dean Wendell, Agr.	Presque Isle	20 Hamlin Street
Edelstein, Albert Nathaniel, Arts	Sanford	410 Oak Hall
Elliott, Russell Smith, Ee.	Bangor	37 Thatcher Street, Bangor
Ellis, Lewis Kenneth, Fy.	Brewer	
	55 Chamberlain Street, Brewer	
Ellis, William Nice, Eng.Ps.	Rangeley	100 North Main Street
Elwell, Eben Littlefield, Arts	Brooks	25 Grove Street
Emerson, Frank Levi, Ch.	Hampden	Hampden
Emerson, Harold LaForest, Arts	Island Falls	205 H. H. Hall
Emery, Lewis Gardner, Me.	Westbrook	203 H. H. Hall
Enman, John Aubrey, Jr., Arts	New York, N. Y.	104 H. H. Hall
Epling, Helen Cresson Young, Arts	Fort Totten, N. Y.	
	University Place	
Erikson, Gordon Iver, Arts	Worcester, Mass.	307 H. H. Hall

Estabrook, Leo Harding, Agr.	East Corinth	102 Mill Street
Etzel, Bernard Adam, Agr.	Freeport	207 H. H. Hall
Etzel, Edward Fredrick, Fy.	East Haven, Conn.	209 H. H. Hall
Evans, Loring Dalrymple, Ce.	Dover, N. H.	5 Forest Avenue
Everett, John Stephen, Jr., Arts	Hallowell	209 H. H. Hall
Fagerlund, Eino Waino, Ch.Eng.	Quincy, Mass.	301 Oak Hall
Falardeau, Edward John, Agr.	Rumford	411 H. H. Hall
Farrin, Alva Edison, Fy.	South Bristol	395 College Road
Farris, Arthur Burnell, Fy.	Union	Kell Street, Star Route
Fenderson, Albion William, Arts	Sanford	25 Grove Street
Fides, Avery Meader, Jr., Arts	Bowdoinham	308 Oak Hall
Fides, Georgie Etta, Arts	Bowdoinham	The Maples
Files, Harry Walker, Jr., Arts	Peaks Island	109 Oak Hall
Finch, John Roger, Agr.	Newark, N. Y.	18 Oak Street
Flanagan, Joseph Francis, Ch.Eng.	Bangor	207 Maple Street, Bangor
Flanders, Freda Natalie, Arts	Bangor	North Hall
Fletcher, Irving Charles, Arts	Rockland, Mass.	33 Bennoch Street
Fletcher, James Spencer, Fy.	Mansfield, Mass.	210 H. H. Hall
Flora, William Richard, Arts	Caribou	211 H. H. Hall
Fogler, Henry Harrison, Ch.Eng.	Hinsdale, Ill.	204 Oak Hall
Ford, Patrick Michael, Arts	Hollywood, Calif.	410 H. H. Hall
Foss, Virginia Evelyn, He.	Hampden	356 College Road
Foss, Warren Lincoln, Me.	Farmington	College Road
Foster, Carolyn Louise, He.	Coopers Mills	67 Bennoch Street
Foster, Elizabeth Caroline, Arts	Enfield	59 College Road
Foster, Walter Herbert, Jr., Agr.	Belmont, Mass.	380 College Road
Frost, Mara, Arts	York Village	The Elms
Frost, Stanley Wilford, Fy.	Norway	104 Oak Hall
Furbish, Harriett Emery, Arts	South Berwick	The Elms
Gardner, Charles Edmond, Ch.Eng.	Wakefield, Mass.	105 Oak Hall
Gaulin, Rodolphe Alexis, Arts	Biddeford	16 Pine Street
Geneva, Maurice Louis, Ch.Eng.	South Portland	33 Peters Street
Gerrish, Evelyn Arlene, He.	Auburn	The Maples
Gifford, Charlotte Mae, Arts	Bangor	240 State Street, Bangor
Gildersleeve, Charles Elmer, Fy.	Mystic, Conn.	407 H. H. Hall
Gilman, Clarence Reginald, Fy.	Bingham	7 Forest Avenue
Gilman, Stanley Francis, Me.	Portland	203 H. H. Hall
Girard, Frances Amala, He.	Portland	The Maples
Given, Jane Louisa, He.	Bowdoinham	The Maples

Godson, Lindley William, Fy.	<i>Colonia, N. J.</i>	409 H. H. Hall
Golbranson, Frank Landgrane, Arts	<i>Presque Isle</i>	20 Hamlin Street
Goldberg, Joseph, Arts	<i>Bangor</i>	56 Essex Street, Bangor
Goldsmith, Joseph Elliott, Arts	<i>Old Town</i>	174 Stillwater Avenue, Old Town
Gooch, Earle Eastman, Arts	<i>Hulls Cove</i>	81 Main Street
Goodchild, James Carleton, Arts	<i>Saco</i>	105 Oak Hall
Gooding, William Thaxter, Jr., Ch.Eng.	<i>Portland</i>	404 H. H. Hall
Goodman, Saul, Arts	<i>Hartford, Conn.</i>	12 Pleasant Street
Goos, Celia, He.	<i>Bangor</i>	87 Birch Street, Bangor
Gordon, Robert, Me.	<i>Springfield, Mass.</i>	33 Bennoch Street
Gorham, William Bert, Fy.	<i>Dover-Foxcroft</i>	307 Oak Hall
Gott, George Joseph, Jr., Me.	<i>Brooklin</i>	101 H. H. Hall
Gould, Rebecca Marjorie, He.	<i>Milo</i>	North Hall
Goutiere, Peter Joffre de M., Arts	<i>Brewer</i>	24 Holyoke Street, Brewer
Grady, Mary Elizabeth, He.	<i>Eastport</i>	The Maples
Graffam, Donald Campbell, Arts	<i>Bangor</i>	120 Forest Avenue, Bangor
Graham, Ralph Earl, Jr., Arts	<i>Brewer</i>	412 H. H. Hall
Graves, Donald Francis, Arts	<i>Northeast Harbor</i>	203 H. H. Hall
Gray, Norma Frances, Arts	<i>Cape Elizabeth</i>	North Hall
Grenci, Evelyn Marie, Arts	<i>Peckskill, N. Y.</i>	The Elms
Grindle, Louise Helen, He.	<i>Mt. Desert</i>	36 Fourth Street, Bangor
Grover, Keith Leslie, Fy.	<i>East Stoneham</i>	88 Park Street
Guptill, Edward William, Me.	<i>Bangor</i>	112 Ohio Street, Bangor
Hadlock, William Kenneth, Me.	<i>Quincy, Mass.</i>	304 H. H. Hall
Haggett, James Elmer, Pa.	<i>Norway</i>	3 Park Street
Hague, Allan Perley, Agr.	<i>Gorham</i>	25 Grove Street
Hague, Anita Marie, Arts	<i>Hallowell</i>	The Elms
Haines, Frank Warren, Jr., Arts	<i>Augusta</i>	212 H. H. Hall
Hall, Walter Butler, Ch.Eng.	<i>North Anson</i>	101 H. H. Hall
Hamblen, Edward George, Fy.	<i>Winthrop</i>	3 Park Street
Hamilton, Clinton Monroe, Me.	<i>South Harpswell</i>	3 Park Street
Hamm, Phillip Lord, Ch.Eng.	<i>Charleston</i>	25 Grove Street
Hancock, Owen Linwood, Fy.	<i>Casco</i>	204 H. H. Hall
Hanson, Joseph Herbert, Arts	<i>Millinocket</i>	305 Oak Hall
Hardie, Alexander, Jr., Bc.	<i>Emsworth, Pa.</i>	207 Oak Hall
Harding, David Ray, Fy.	<i>Bernard</i>	102 H. H. Hall

Harding, William Roy, Ge.	Bernard	102 H. H. Hall
Hardison, Allen Crosby, Agr.	Fillmore, Calif.	110 H. H. Hall
Harlow, Robert James, Ch.Eng.	Barre Plains, Mass.	410 H. H. Hall
Harper, Donald Clarence, Fy.	Rochester, N. Y.	403 H. H. Hall
Harrison, Robert Edward, Ec.	Waterville	80 North Main Street
Harvey, Beverley Hunter, Arts	Carmel	Carmel
Harvey, George Stanley, Jr., Agr.	Medford, Mass.	403 H. H. Hall
Haskell, Ernest Edward, Jr., Ec.	North Anson	104 H. H. Hall
Hatch, Fletcher Ames, Jr., Me.	West Newton, Mass.	412 Oak Hall
Hawkins, Glenn Alan, Fy.	Plandome, L. I., N. Y.	205 H. H. Hall
Hay, Robert Bernard, Me.	Portland	12 Park Street
Heald, Alice Eleanor, Arts	Old Town	26 A Front Street, Old Town
Heaton, Sara Margaret, Arts	Portland	6 Gilbert Street
Hempstead, David Geer, Me.	Bucksport	408 H. H. Hall
Hempstead, Mary VanNess, He.	Bucksport	North Hall
Henderson, Robert Julian, Fy.	Ogunquit	Stillwater Avenue, Stillwater
Henry, Iva Virginia, Arts	Thomaston	The Elms
Herbolzheimer, Fred, Jr., Pa.	Reading, Mass.	401 Oak Hall
Herman, Milton, Arts	Mt. Vernon, N. Y.	60 Forest Avenue
Herzberg, Gerard Alexander, Agr.	New York, N. Y.	310 H. H. Hall
Hewett, Orris Churchill, Arts	North New Portland	123 Middle Street, Old Town
Hilton, James Bryce, Me.	Bingham	309 Oak Hall
Hinckley, George Lyman, Me.	Manset	384 College Road
Hine, Ernest James, Eng.	Palmer, Mass.	404 H. H. Hall
Hodgkins, Dorothy Leona, He.	Northeast Harbor	The Elms
Hoffman, Everett Meyer, Arts	Chelsea, Mass.	201 H. H. Hall
Holden, Frank Charles, Ce.	Millinocket	104 H. H. Hall
Holland, Edward Joseph, Jr., Ch.	Bangor	356 French Street, Bangor
Holter, John Latimer, Ch.Eng.	Newtonville, Mass.	202 Oak Hall
Horeyseck, Paul Weidig, Ch.Eng.	Rockland	409 Oak Hall
Horrocks, Rex Albert, Ce.	Wilton	Kell Street
Howard, Harold Everett, Me.	Ridgelyville	402 H. H. Hall
Hoyt, Louise Beryl, He.	Fort Fairfield	The Maples
Hubbard, Robert Newton, Me.	Pittsfield	311 H. H. Hall
Hunt, John Herbert, Fy.	Fairfield	109 H. H. Hall
Hunter, Eleanor Ruth, He.	Unity	North Hall

Huntley, Edith Jordan, Arts

Old Town

20 Willow Street, Old Town

Hurd, Lester Merrill, Ee.

Biddeford

409 Oak Hall

Hussey, Eugene Rosswell, Agr.

Kezar Falls

104 Oak Hall

Hutchinson, Gerald Guilford, Arts

*Millinocket*151 South Brunswick Street,
Old Town

Ingalls, Everett Palmer, Jr., Ch.Eng.

Westbrook

204 Oak Hall

Ingalls, Robert Dale, Ch.Eng.

Bar Harbor

202 H. H. Hall

Inman, Charles Priestley, Arts

Orono

40 Middle Street

Innes, Donald Winslow, Ce.

South Portland

209 Oak Hall

Jackson, Henry Alden, Ch.Eng.

Rockville Centre, N. Y.

305 Oak Hall

Jacobsen, Lyman William, Agr.

Bar Harbor

112 Oak Hall

Jalbert, Armand Wilfred, Ce.

Spencer, Mass.

100 North Main Street

Jameson, William Sherman, Agr.

Waldoboro

302 H. H. Hall

Jardine, Donald Ross, Ch.Eng.

Madison

402 H. H. Hall

Jenkins, Robert Dunlap, Ch.Eng.

Orono

202 Oak Hall

Jensen, Helena Marie, He.

Scarboro

The Maples

Johnson, Eleanor Marilyn, He.

Sanford

The Maples

Johnson, Philip Edward, Me.

Spencer, Mass.

33 Pond Street

Johnson, Ralph Adolph, Jr., Ee.

Lowell, Mass.

103 H. H. Hall

Johnson, Richard Melvin, Ee.

Fairfield

205 Oak Hall

Johnston, Rita Ellen, He.

Bangor 35 Boutelle Road, Bangor

Jones, Richard Frye, Arts

Unity

24 Oak Street

Kaelin, Robert Werner, Fy.

Palisade, N. J.

College Road, Stillwater

Kagan, Molly, Arts

Bangor 183 York Street, Bangor

Karl, Richard Wardwell, Arts

Rockland

311 Oak Hall

Kay, Kenneth Joseph, Me.

Bridgeport, Conn.

404 Oak Hall

Keenan, Gerald Leo, Ee.

Mars Hill

University Cabin

Keene, Philip Earl, Agr.

Appleton

25 Grove Street

Keiter, Irving, Arts

Chelsea, Mass.

201 H. H. Hall

Kelley, Asenith Harriette, Arts

Waterville

North Hall

Kelley, John Douglas, Arts

South Portland

111 Oak Hall

Keniston, Robert Fiske, Me.

West Paris

406 Oak Hall

Kimball, Myra Jean, Arts

Damariscotta

North Hall

Kinney, Keith Wyman, Agr.
 Kittredge, Arthur Kendall, Ee.
 Klein, Ronald, Arts
 Klucken, Ralph Anthony, Ch.
 Knight, Betty, He.
 Knowlton, David Hale, Ch.Eng.

LaCroix, Harold Joseph, Arts
 Ladner, LeRoy Alexander, Fy.

Lafond, Paul Decella, Arts
 Laliberte, William Gordon, Arts

Langdon, Elinor Frances, Arts
 Lange, Roland Parlin, Ch.Eng.
 Langley, Earl Berfield, Agr.
 Larouche, Samuel Olivier, Ch.Eng.
 Leadbeater, Barbara Vesta, Arts
 Leavitt, Eben, Jr., Ee.
 Lees, Richard Warner, Ch.Eng.

Leonard, Frederic Adams, By.
 Leonard, Henry Grant, Jr., Fy.
 Lewis, Horace Worster, Fy.
 L'Herault, Francis Ralph, Me.
 Libby, Donald William, Pa.
 Libby, Elizabeth Virginia, Arts
 Libby, Margaret Alice, Arts
 Limon, Gerald Norman, Arts
 Lindsay, William Alexander, Arts
 Littlefield, Marian Edna, Arts
 Littlefield, Stanley Sherburn, Me.
 London, Norman Rex, Pa.

Long, Fletcher Jackson, Agr.
 Lord, Jay Merrill, Me.
 Loring, Priscilla, Arts
 Lorusso, Louis Paul, Arts

Lovely, Mary Alice, Arts

Bradford Center 102 Mill Street
McKinley 409 H. H. Hall
Eagle Lake 60 Forest Avenue
East Stoneham 3 Park Street
Unity North Hall
Beverly, Mass. 103 H. H. Hall

South Portland 380 College Road
Bangor

107 Mt. Hope Avenue, Bangor
Skowhegan 211 H. H. Hall
Brewer

60 Chamberlain Street, Brewer
Kittery North Hall

Jackman 100 North Main Street
Easton University Cabin

Milo 1 Mill Street Lane
North Whitefield The Elms

Bangor 441 Union Street, Bangor
Hamden, Conn.

100 North Main Street
Bangor 20 Norfolk Street, Bangor

Westfield, N. J. 312 H. H. Hall
Bangor 203 Oak Hall

Damariscotta 395 College Road
Orono 52 North Main Street

Charleston College Road
Charleston College Road

New York, N. Y. 405 H. H. Hall
Somerville, Mass. 310 Oak Hall

Milo North Hall
York Harbor 7 Kell Street

Forest Hills, L. I., N. Y.
 311 H. H. Hall

South Portland 403 Oak Hall
Kesar Falls 101 Oak Hall

Freeport 79 Bennoch Street
East Walpole, Mass.

60 Forest Avenue
Old Town

30 North Fourth Street
 Old Town

Lufkin, Charles H., Arts	<i>Bucksport</i>	303 H. H. Hall
Lutes, Olin Silas, Jr., Eng.	<i>Orono</i>	College Road
Lycette, Robert Charles, Me.	<i>Oakmont, Pa.</i>	110 H. H. Hall
Lyon, Norman Richardson, Me.	<i>Pittsfield</i>	311 H. H. Hall
McCarthy, Marcia Merrow, Arts	<i>Waterville</i>	The Maples
McCarthy, Mary Eleanor, Arts	<i>Bangor</i>	256 Birch Street, Bangor
McCloskey, Hugh Francis, Arts	<i>Bangor</i>	32 Second Street, Bangor
McGlauffin, Ernest Thurston, Agr.	<i>Presque Isle</i>	80 North Main Street
McKay, Ruth, Arts	<i>Old Town</i>	64 Bradbury Street, Old Town
McKeen, Richard Douglas, Me.	<i>Bangor</i>	16 Garland Street, Bangor
MacKenzie, Victoria Evelyn, He.	<i>East Millinocket</i>	The Maples
McLaughlin, Wayne Thurlow, Ee.	<i>Medway</i>	411 H. H. Hall
MacLeod, Dorothy Elizabeth, Arts	<i>Bar Harbor</i>	The Elms
Mack, Jean C., Arts	<i>Bangor</i>	The Maples
Maker, Irwin Wyman, Fy.	<i>Mattawamkeag</i>	88 Park Street
Manhire, Richard Henry, Arts	<i>Hallowell</i>	36 Grove Street
Manter, Robert Lester, Agr.	<i>Brunswick</i>	212 H. H. Hall
Marden, Wilbur James, Fy.	<i>Monroe</i>	25 Grove Street
Markee, Charles Alton, Pa.	<i>Calais</i>	210 Oak Hall
Martinez, Richard Edward, Arts	<i>Albany, N. Y.</i>	302 H. H. Hall
Matley, Francis Russell, Eng.	<i>Westbrook</i>	410 Oak Hall
Maxim, James Arthur, Ee.	<i>Mechanic Falls</i>	Kell Street, Star Route
Merchant, James Eldridge Greene, Arts	<i>Newtonville, Mass.</i>	395 College Road
Merrill, Charles Reed, Ce.	<i>Madison</i>	310 Oak Hall
Miller, John Prince, Ee.	<i>West Medford, Mass.</i>	306 H. H. Hall
Mongovan, Harold Eaton, Jr., Pa.	<i>Bangor</i>	4 Graham Avenue, Bangor
Monohon, Janet Grace, Arts	<i>Bangor</i>	172 Fourteenth Street, Bangor
Moody, Dwight Campbell, Agr.	<i>Lincoln</i>	403 H. H. Hall
Mooney, Francis Cyprian, Arts	<i>Bangor</i>	33 Vine Street, Bangor
Moran, Dorothy Barbara, Arts	<i>Portland</i>	The Maples
Morey, Robert Lester, Jr., Me.	<i>Swampscott, Mass.</i>	101 Oak Hall
Morris, Phyllis Mary, He.	<i>Bangor</i>	270 French Street, Bangor
Morrison, Charlotte Allen, He.	<i>Bar Harbor</i>	The Elms
Morrison, William James, Me.	<i>Cape Cottage</i>	395 College Road
Morse, Carleton Lorin, Jr., Ee.	<i>Newton Centre, Mass.</i>	306 H. H. Hall

Morse, Jean Annette, Arts
 Mortland, Hilton Ralph, Fy.
 Moscone, Margaret Tina, He.
 Mosher, Norman William, Pa.
 Moulton, Arthur Bertram, Ec.
 Moulton, James Albion, Agr.
 Moulton, Roger Daniels, Ec.
 Moynihan, Mary Elizabeth, Arts
 Mudgett, Frank Aubert, Jr., Me.
 Mullen, Helen Ruth, Arts
 Myers, Helen Elizabeth, Arts

Nelson, Norman Thomas, Arts

Nelson, Peter Samuel, Agr.

Newdick, Robert Lincoln, Ch.Eng.
 Nickerson, Charlotte Ellen, He.
 Nickerson, Clifton Scales, Fy.
 Norton, George Austin, Eng.
 Norton, Richard Francis, Agr.
 Nowak, Andrew Arthur, Arts

Oakes, Emily Merrill, Arts
 O'Brien, John Augustus, Ec.
 O'Mara, Stella Mary, Arts
 O'Neil, Wilbert Eugene, Arts
 Ordway, Harriet Howard, Arts
 Osgood, Gerald Colfax, Agr.
 Ouellette, Dorothy Alice, Arts
 Overlock, Leland Elmer, Me.

Oxner, Clyde Russell, Me.

Page, Martha, He.
 Parker, Charles Henry, Arts
 Parker, Clarence Willis, Ch.Eng.
 Parkhurst, Mary, Arts

Parkin, Charles Laurence, Arts

Bangor 101 Royal Road, Bangor
 Searsport 25 Grove Street
 East Millinocket The Elms
 Belfast 211 Oak Hall
 York Village Stillwater
 Hiram 204 H. H. Hall
 York Village Stillwater
 Madison The Maples
 South Eliot 403 Oak Hall
 Houlton The Maples
 Orono 33 Spencer Lane

Old Town

Indian Island, Old Town

Old Town

Indian Island, Old Town

Augusta 109 Oak Hall
 Brewer 98½ State Street, Brewer
 Bath 401 H. H. Hall
 Northampton, Mass. 405 Oak Hall
 Portland 409 H. H. Hall
 Bangor 50 Pine Street, Bangor

Freeport The Elms
 Lewiston 88 Park Street
 East Millinocket The Elms
 Dresden Mills 148 Main Street
 Yarmouth The Maples
 Bradford 102 Mill Street
 Madison The Maples
 South Warren

51 North Main Street

South Berwick 209 H. H. Hall

Bath The Elms
 Addison 51 North Main Street
 Sebec Station 407 Oak Hall
 Old Town

44 High Street, Old Town

Bangor
 169 West Broadway, Bangor

Patten, Jeanne Louise, Arts	<i>Hampden Highlands</i>	The Maples
Pearson, Margaret Elizabeth, Arts	<i>Kennebunkport</i>	The Maples
Peckham, Malcolm Curtis, Agr.	<i>Taunton, Mass.</i>	410 H. H. Hall
Peirce, Charlotte Sara, He.	<i>Bangor</i>	205 Elm Street, Bangor
Pendleton, Frank Emerson, Jr., Ch.Eng.	<i>Caribou</i>	310 H. H. Hall
Perazzi, Francesca Mary, Arts	<i>Hallowell</i>	The Elms
Perkins, Stuart Hamilton, Agr.	<i>Kennebunk</i>	404 H H. Hall
Perro, Mary Harriet, He.	<i>Old Town</i>	
		72 South Brunswick Street, Old Town
Perry, Leonard Joseph, Jr., Ch.Eng.	<i>Bangor</i>	
		382 Lincoln Street, Bangor
Pfeiffer, Charles Leslie, Fy.	<i>South Natick, Mass.</i>	412 Oak Hall
Pierce, Richard MacMillan, Fy.	<i>Gardiner</i>	408 Oak Hall
Pinansky, Linwood Harold, Arts	<i>Portland</i>	60 Forest Avenue
Pinkham, Linwood Birdell, Ce.	<i>Kingfield</i>	25 Grove Street
Plaisted, Philip Heath, Agr.	<i>Oakland</i>	208 Oak Hall
Pond, Hulda Franklin, He.	<i>Hampden</i>	Hampden
Pooler, Mary Anita, Arts	<i>Waterville</i>	The Elms
Potter, Edgar Morse, Arts	<i>Kittery</i>	33 Bennoch Street
Powers, John Nolan, Ee.	<i>Medway</i>	25 Grove Street
Pratt, Bertis Lee, Jr., Arts	<i>Caribou</i>	301 Oak Hall
Pray, Charles Alton, Agr.	<i>Newport</i>	25 Grove Street
Price, Betty Catherine, Arts	<i>Washburn</i>	North Hall
Putnam, Neal Clifford, Agr.	<i>Monroe</i>	25 Grove Street
Quint, Lloyd Frank, Arts	<i>Portland</i>	408 Oak Hall
Radley, John Robert, Pa.	<i>Attleboro, Mass.</i>	85 Main Street
Rafferty, Thomas Hilary, Me.	<i>Old Town</i>	
		131 North Veazie Street, Old Town
Rafford, Arthur Palmer, Agr.	<i>Ashland</i>	212 H. H. Hall
Ramsdell, Patricia Marie, Arts	<i>Bangor</i>	
		230 West Broadway, Bangor
Rand, Preston Brown, Arts	<i>Bangor</i>	
		14 Frances Street, Bangor
Ranks, John Ellis, Ee.	<i>South Portland</i>	209 Oak Hall
Ransden, Proctor Wayne, Fy.	<i>Tewksbury, Mass.</i>	211 H. H. Hall
Reynolds, Bion Edward, Ce.	<i>Winthrop</i>	312 H. H. Hall

Reynolds, Edgar Bradford, Agr.	Portland	33 Bennoch Street
Reynolds, Eugene Earl, Arts	Lubec	410 H. H. Hall
Rich, David Elmer, Jr., Me.	Bath	402 H. H. Hall
Richardson, Leighton Russell, Me.	Saco	407 Oak Hall
Rideout, Elmer William, Jr., Arts	Niagara Falls, N. Y.	207 H. H. Hall
Roach, Robert Garfield, Ch.Eng.	Fort Fairfield	Park Street
Robbins, Stephen Leon, Fy.	Kittery	402 Oak Hall
Roberts, Shirley Alford, Arts	Robbinston	218 Brunswick Street, Old Town
Robinson, Donald Manfred, Me.	Staten Island, N. Y.	309 H. H. Hall
Robinson, Edward Alfred, Fy.	Bronxville, N. Y.	203 H. H. Hall
Rogers, Carolyn Elaine, He.	Old Town	106 Middle Street, Old Town
Rogers, Madolin Charlotte, He.	Houlton	The Maples
Roll, Warren Roosevelt, Agr.	Glen Cove, N. Y.	406 H. H. Hall
Rollins, Lawrence Hollis, Ee.	Haynesville	24 Oak Street
Rolnick, Ida Sonya, Arts	Bangor	17 Adams Street, Bangor
Rosie, Robert Edward, Me.	Bangor	80 Wiley Street, Bangor
Rostron, James Longworth, Me.	Kittery	384 College Road
Rourke, Marie Josephine, Arts	Winthrop	North Hall
Rowell, Ruth Olive, Arts	Thomaston	The Elms
Rubinoﬀ, Sally, Arts	Auburn	The Elms
Rudolph, Louis, Ee.	Chelsea, Mass.	410 Oak Hall
Runels, Ralph Charles, Ge.	Lowell, Mass.	303 H. H. Hall
Russell, James William, Fy.	Gray	University Cabin
Russell, Philip Irvin, Agr.	South Portland	202 H. H. Hall
Ruth, Robert Mathew, Agr.	Houlton	110 H. H. Hall
Saltzman, Elmer, Arts	Bangor	303 Broadway, Bangor
Sargent, Mary Elizabeth, He.	Alton	Stillwater
Savage, Lois Ann, He.	Springfield, Mass.	The Maples
Savage, Robert Mardell, Ee.	Northeast Harbor	33 Bennoch Street
Savasuk, Chester, Arts	Waterville	411 H. H. Hall
Sawyer, Carl Leslie, Agr.	Newport	25 Grove Street
Sawyer, Charles Welch, Jr., Arts	Southwest Harbor	36 Grove Street
Schneider, Hyman Nathan, Arts	Mattapan, Mass.	30 Crosby Street

Schofield, Wentworth Henry, Jr., Me.	Portland	77 Mill Street
Schuerfeld, Warren Frederick, Me.	West Roxbury, Mass.	
		100 North Main Street
Scott, Robert Falcon, Fy.	Bolton, Mass.	384 College Road
Sedgeley, Armand Clarence, Ce.	Ridlonville	17 Margin Street
Segal, Louis, Ee.	Bangor	Essex Street, Bangor
Selmer-Larsen, Johan, Jr., Me.	Marblehead, Mass.	403 H. H. Hall
Shaw, Richard Harmon, Agr.	Sanford	402 Oak Hall
Shepard, Frederick Johnson, III, Me.	West Newton, Mass.	
		411 Oak Hall
Simons, Lee, Arts	Brookline, Mass.	405 H. H. Hall
Sinkinson, Richard, Arts	Saylesville, R. I.	411 H. H. Hall
Sinnett, Clifford Henry, Arts	Portland	380 College Road
Sleeper, Sylvia Louise, Arts	Bangor	
		426 Garland Street, Bangor
Smiley, Samuel Perry, Fy.	Waterville	304 H. H. Hall
Smith, Arthur Warren, Ee.	Richmond, Va.	60 Park Street
Smith, Bernard Raymond, Agr.	Mars Hill	309 Oak Hall
Smith, Paul, Arts	Bangor	
		345 Hancock Street, Bangor
Snell, Daniel Tozier, Ch.Eng.	Gorham	411 Oak Hall
Soderberg, Robert Howes, Fy.	Hartford, Conn.	310 H. H. Hall
Solie, Joanne Marie, He.	Dixfield	The Elms
Southard, Harris Brooks, Me.	Bangor	35 Forest Avenue, Bangor
Spear, Cynthia Belle, He.	Lisbon Falls	North Hall
Springer, Mary, He.	Portland	The Maples
Springer, Winnifred Audrey, Arts	Danforth	59 College Road
Stackpole, Miner Batchelder, Ce.	Augusta	207 Oak Hall
Stairs, Carroll Arthur, Agr.	Orono	13 Middle Street
Standish, Bret Martin, Arts.	Baldwin, N. Y.	101 H. H. Hall
Starrett, Robert McLean, Ch. Eng.	Friendship	3 Park Street
Staub, Walter Mitchell, Ch.Eng.	Valleyfield, Que., Canada	
		33 Bennoch Street
Stearns, Roger Edwin, Me.	Bar Harbor	204 H. H. Hall
Stevens, Gerald Charles, Agr.	Fort Fairfield	301 H. H. Hall
Stevens, Natalie Marion, Arts	Bangor	68 Boutelle Road, Bangor
Stewart, John Charles, Ch.Eng.	Brookline, Mass.	206 H. H. Hall
Stickney, Wendell Hayward, Me.	Brownville	144 College Road
Stratton, Richard Earle, Ce.	Reading, Mass.	304 H. H. Hall
Stritch, Marjorie Edith, Arts	Sanford	The Elms
Strout, Warren Greenleaf, Arts	Dexter	308 H. H. Hall

Sturgis, David William, Jr., Me.	Gorham	15 Park Street
Sullivan, Walter Leeman, Ch.Eng.	Portland	406 H. H. Hall
Supovitz, Stanley Shepard, Arts	Lewiston	201 H. H. Hall
Swanson, Eleanor Josephine, Arts	Brewer	5 Washington Street, Brewer
Swett, Nathaniel Fosdick, Jr., Ch.Eng.	West Somerville, Mass.	301 H. H. Hall
Talbot, Philip Henry, Jr., Agr.	Portland	112 H. H. Hall
Tarr, Mary Lenora, Arts	Baltimore, Md.	The Maples
Taverner, Donald Vardy, Arts	Augusta	University Cabin
Taylor, Frank Elmer, Fy.	Bridgeport, Conn.	311 H. H. Hall
Tebbets, Claire Marian, Arts	Locke Mills	North Hall
Thomas, John Eddy, Arts	Schenectady, N. Y.	115 Main Street
Thompson, Berneice Edith, He.	West Enfield	The Maples
Thurlow, Everett Beach, Agr.	Lee	88 Park Street
Titcomb, Alton Vernon, Agr.	Houlton	81 Mill Street
Tondreau, Evelyn Georgianna Olive, Arts	Brunswick	The Elms
Tooley, Gordon Kenneth, Fy.	Greenwich, Conn.	203 Oak Hall
Torrey, Charlotte Marie, Arts	Bangor	104 Royal Road, Bangor
Torrey, Guy Ellicott, Arts	Bar Harbor	312 Oak Hall
Tozier, Enid Frances, He.	Solon	39 Washington Street, Brewer
Twitchell, Rachel Iva, He.	Bryant Pond	North Hall
VanTassell, Hazel Marie, Arts	Houlton	160 Stillwater Avenue, Old Town
Varnam, Leonard Eaton, Agr.	Steep Falls	3 Park Street
Varney, Willard Patrick, Ch.Eng.	Bangor	104 Third Street, Bangor
Verrill, Marjorie Rebecca, Arts	Winterport	Campus
Viles, Frederick Marshall, Me.	Skowhegan	307 Oak Hall
Walden, Edwin Schuyler, Me.	Greenville	211 H. H. Hall
Walker, Bette Jane, He.	Presque Isle	The Maples
Ward, Gerald Madison, Agr.	Thorndike	25 Grove Street
Ward, Lowell Ellwood, Ee.	Brighton	209 H. H. Hall
Warren, Wallace Flagg, Agr.	Newport	206 Oak Hall
Watson, Carlisle Vives, Jr., Ee.	Auburn	104 H. H. Hall

Watson, George Albert, Ee.	Wilton	302 H. H. Hall
Weare, James Leavitt, Ce.	Cape Neddick	3 Park Street
Webb, Bette Moseley, Arts	Winthrop	The Elms
Webbly, Doris Louise, Arts	Augusta	The Maples
Webster, John Peters, Arts	Bangor	435 Union Street, Bangor
Weidman, George Robert, Fy.	Providence, R. I.	380 College Road
Weinstein, Milton, Arts	Bangor	
		55 Parkview Avenue, Bangor
Weisman, Robert Harry, Arts	Portland	12 Pleasant Street
Welch, Walter Raynes, Fy.	Rumford	404 H. H. Hall
West, Clifford Harry, Jr., Arts	Bangor	146 Elm Street, Bangor
Weymouth, Joanne Hale, Arts	Howland	The Maples
Wheeler, Donald Battye, Arts	Danvers, Mass.	201 Oak Hall
White, David Walter, Jr., Ch.	Topsham	Stillwater
White, Lois Evelyn, He.	Augusta	The Maples
Whiteley, Harold William Hanson, Agr.	Limerick	9 Forest Avenue
Whitman, Esther Lillian, Arts	Dover-Foxcroft	The Elms
Whitney, Harold Earl, Fy.	Salisbury, Vt.	17 Margin Street
Whitney, Nellie Marie, Arts	East Corinth	The Maples
Wilbur, Oscar Milton, Jr., Ch.Eng.	Cape Cottage	304 Oak Hall
Wilcox, Frances Rita, Arts	Portland	North Hall
Willets, Seth Barrows, Me.	Roslyn, N. Y.	405 Oak Hall
Williams, Charles Henry, Ee.	Fort Fairfield	Park Street
Wilson, John Merrill, Fy.	Lynn, Mass.	412 H. H. Hall
Wilson, Kermit Blanchard, Me.	South Paris	110 Oak Hall
Wilson, Ruth Augusta, He.	Madison	North Hall
Wise, Neota Marguerite, He.	Guilford	The Elms
Witham, Hubert Elwin, Me.	Skowhegan	310 Oak Hall
Woodman, Edward Buxton, Me.	Stonington	395 College Road
Woodward, Edward, Me.	Providence, R. I.	309 H. H. Hall
Wooster, Harry Macomber, Eng.	Old Town	
		258 Center Street, Old Town
Worrick, Robert Clifton, Fy.	Wellesley, Mass.	310 H. H. Hall
Worthen, Mary Ellen, Arts	St. Albans	
		96 Forest Avenue, Bangor
Wright, Helen Nancy, Arts	Wellesley, Mass.	The Maples
Wright, Kenneth Fernald, Arts	Westbrook	110 H. H. Hall
Youlden, Richard Howard, Ge.	Needham, Mass.	309 H. H. Hall
Young, Joseph Andrews, Fy.	Corea	College Road

Young, Keith Edmond, Fy.	Portland	University Cabin
Young, Norman Belmont, Me.	Hancock	College Road

SPECIALS

Allen, Charles Donald, Arts	Cape Cottage	210 Oak Hall
Anderson, Clayton Oliver, Eng.	Cape Elisabeth	♠ R Δ House
Bell, George Louis, Hy. & Gt.	Bangor	25 Hudson Street, Bangor
Blaisdell, Tedford Madison, Me.	Augusta	Σ X House
Bowers, Ruth Wilma, Bt. & En.	Orono	51 Pine Street
Boardway, Walker Fred, Ch.	Stillwater	Stillwater
Brown, Samuel Houston, Fy.	Philadelphia, Pa.	7 Summer Street
Burns, John Wesley, Ph.	Union	College Road, Star Route
Carr, George Raymond, Eng.	Plattsburg, N. Y.	14 Middle Street
Constantine, Harry James, Arts	Bangor	31 Winter Street, Bangor
Corbin, Charles Milton Lewis, Jr., Pa.	Woodlyn, Pa.	151 Park Street
Dow, William MacAdam, Arts	Portland	Commons
Elwell, Robert Arthur, Ph.	Gorham	University Cabin
Franck, Mark Eloï, Ed.	Frenchville	119 Mill Street
Gifford, William Edward, Eng.	Bangor	240 State Street, Bangor
Gilbert, Eugene Clarence, Eng.	Winterport	Σ A E House
Hagensen, Philip Leonard, Ce.	Bangor	38 Sixth Street, Bangor
Kinne, Harry Cessford, Pa.	Watertown, N. Y.	46 College Road
Neal, Allan Johnson, Jr., Agr.	Bangor	A T Ω House
Nowell, Carleton Wayne, Eng.	York Village	A X A House
Nye, Dana Hammond, Eng.	Waterbury, Conn.	A T Ω House
Pierce, Philip Nason, Eng.	Gardiner	A T Ω House
Pruett, Kenneth Sherwood, Ed.	Kittery	♠ M Δ House
Sawyer, Haven, Jr., Eng.	Bangor	Σ A E House
Scanlin, Millicent Preissel, Ed.	Newport	Newport
Seabury, Edwin Morey, Eng. Pa.	Orono	27 Middle Street
Stanton, Harold Troutt, Eng.	Bath	♠ K Σ House
Taylor, Mark Albert, Me.	Newport	Stillwater
Thurston, Frederick Clark, Eh.	Bangor	20 Adams Street, Bangor
Upcott, Dorothy Lavinia, Py.	Orono	20 Forest Avenue
Wetherbee, William Howard, Dr.	Cortallis, Ore.	54 Pine Street
Whitener, Ernest Karl, Jr., Pa.	Gastonia, N. C.	33 Bennoch Street
Willey, Baxter Leone, Ch. Eng.	Cherryfield	
		241 Center Street, Old Town
Winter, Alan John Day, Pa.	Kingswood, Surrey, Eng.	
		55A Bennoch Street

Woodward, Homer Clay, Eng.
Yates, Clifford Thomas, Pa.

Newport A T Ω House
Mildura, Australia 103 Oak Hall

TWO-YEAR COURSE IN AGRICULTURE

FIRST YEAR

Abbott, Hugh Warren
Akeley, Roger Pierson
Bolstridge, Leslie James
Boudreau, Edmund Herbert
Bubar, Ivan Bliss
Chadwick, John Harold
Choate, Edward Carlile
Collins, Frank Appleton
Cox, Edward Glidden, Jr.
Dunn, Charles Eldridge

West Paris 25 Grove Street
Presque Isle 12½ Pleasant Street
Corinna 25 Grove Street
Bangor 44 Forest Avenue, Bangor
Littleton 25 Grove Street
Houlton 302 Oak Hall
Portland 40 College Road
Rutherford, N. J. 109 H. H. Hall
Brooks 7 Kell Street
Wallingford, Conn.

100 North Main Street

Ferry, Harold Eugene
Gay, Clayton Helier
Grant, Robert Hutchinson
Harlow, Richard Fessenden
Hartley, Ralph Robertson
Hutchinson, Lewis
Ireland, Winston Bruce

Newport 25 Grove Street
Cherryfield 25 Grove Street
Silver's Mills 107 Oak Hall
Hyde Park, Mass. 102 H. H. Hall
Bridgewater 303 H. H. Hall
Cumberland Mills 7 Kell Street
Fort Fairfield

55 South Brunswick Street,
Old Town

Jellison, Gerald Earle
Kennedy, Richard Edward
Kinney, Harold Arthur
Lancaster, Horace Smith
Pepper, Abraham
Philbrick, Charles Blaisdell
Saunders, Arthur Snow
Stewart, Donald Mason
Swett, Charles Reginald
Thomas, Walter Clyde
Titcomb, Edward Payson
Wright, Frank Moore, Jr.
Young, Philip Stanley

Bangor 279 Essex Street, Bangor
Monmouth 14 Kell Street
Easton 406 Oak Hall
Bowdoinham 305 H. H. Hall
Orono 12 Pleasant Street
Corinna College Road, Star Route
South Blue Hill Kell Street
Bangor 40 Third Street, Bangor
Mattawamkeag 38 Oak Street
Westfield, N. J. 401 H. H. Hall
Littleton 25 Grove Street
Sebago 301 H. H. Hall
Gorham 25 Grove Street

SECOND YEAR

Baker, Philip George	<i>Orono</i>	106½ North Main Street
Bessom, Edward Anthony	<i>South Orleans, Mass.</i>	
		A T P House
Cunningham, Judson Bradford	<i>Patten</i>	38 Grove Street
Dahlin, Russell John	<i>Caribou</i>	88 Park Street
Emery, Edwin Black	<i>Limington</i>	A T O House
Fletcher, Amos Harold	<i>Caribou</i>	K Σ House
Hardy, William Robert	<i>Hope</i>	25 Grove Street
Hawkes, Ronald Morrill	<i>Gorham</i>	Σ A E House
Holman, Arlie Bucknam	<i>Mexico</i>	A T P House
Mayo, Richard Goodwin	<i>Brewer</i>	137 Wilson Street, Brewer
Pottle, Maurice Allen	<i>Lincolnton</i>	25 Grove Street
Randall, Halston Blackstone	<i>Caribou</i>	60 Park Street
Rankin, Earle Alfred	<i>Melrose, Mass.</i>	80 Mill Street
Spalding, James Herbert, Jr.	<i>Balboa Heights, C. Z.</i>	O X House
Wallace, Robert David	<i>Limerick</i>	9 Forest Avenue
Woods, Alan Fairbank	<i>West Hartford, Conn.</i>	
		430 College Road
York, Donald Colby	<i>Windsorville</i>	A T P House

SPRING SEMESTER, 1940

NEW REGISTRATIONS

GRADUATE STUDENTS

Gibbons, Mary Margaret, B.A., Eh.	<i>Bangor</i>	Hudson Road, Bangor
Wellesley, 1935		
Oliver, Velma Katherine, B.A., M.A., Eh.	<i>Dexter</i>	South Hall
Maine, 1925, 1938		
Sibley, Charles Byron, B.S., By.	<i>Stillwater</i>	Stillwater
Maine, 1937		
Stevens, Joyce Cheney, B.A., Sh.	<i>Orono</i>	3 University Place
Maine, 1935		
Warner, Beryl Elisabeth, B.A., Ms.	<i>Bangor</i>	
Maine, 1935		192 Fourteenth Street, Bangor

NEW REGISTRATIONS

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SENIORS

Alley, John Chase, Fy.	<i>Portland</i>	Φ H K House
Babcock, Dorothy Eleanor, Ed.	<i>Bangor</i>	67 Mill Street
Buck, Mary Ellen, He.	<i>Monticello</i>	
	Home Management House	
Goud, Allan Frederick, Es.	<i>Augusta</i>	Θ X House
Sawyer, Neil Gould, Py.	<i>Easton</i>	36 Grove Street
Trask, Allen Dudley, Ch.Eng.	<i>Melrose Highlands,</i>	
	<i>Mass.</i>	Σ X House

JUNIORS

Beverage, Ray Jasper, Me.	<i>North Haven</i>	104 Main Street
Burney, Lawrence Edward, Fy.	<i>South Portland</i>	Λ X A House
Chapman, Mary Joan, He.	<i>Orono</i>	13 Park Street
Chapman, Mildred Lombard, He.	<i>Orono</i>	13 Park Street
Jewett, George Herbert, II, Fm.	<i>Bucksport</i>	Φ Γ Δ House
Mitchell, Sadie Ranco, He.	<i>Old Town</i>	
	Indian Island, Old Town	
Sweet, Sherley Marcus, Hy. & Gt.	<i>Bar Harbor</i>	77 Mill Street
Wasung, Stanley Francis, Ce.	<i>Newark, N. J.</i>	3 Park Street
Wright, Samuel Judd, An.	<i>Clinton</i>	88 Park Street

SOPHOMORES

Blackstone, Fred Jones, Jr., Ge.	<i>Caribou</i>	Δ T Δ House
Curley, John Irvine, Jr., Arts	<i>Rumford</i>	K Σ House
Lancaster, Hartwell Charles, Arts	<i>Old Town</i>	
	154 Stillwater Avenue, Old Town	
Meserve, Philmore Windsor, Fy.	<i>Mechanic Falls</i>	Φ H K House

FRESHMEN

Darling, Chester Allen, Fy.	<i>Orleans, Mass.</i>	3 Park Street
Morneault, Camille Etien, Agr.	<i>Lille</i>	21A Mill Street

SPECIALS

Backer, Grace Weil, He.	<i>Orono</i>	43 Main Street
Banks, Merton Ford, Ed.	<i>Bangor</i>	131 Maple Street, Bangor

Bowler, Charlotte Crosby, Ed.
Brewster, Wendell Swanton, Ed.

Bangor 224 Nowell Road, Bangor
Dexter

255 Center Street, Old Town

Farmer, Blaine Linwood, Me.
Gove, Raymond Eugene, Ed.

Greene 80 Pine Street
Brewer

82 Washington Street, Brewer

MacGregor, Robert Malcolm, Me.

Plattsburgh, N. Y.

14 Middle Street

MacLeod, Irene Gibson, Ch.
Ranco, Bertha Elizabeth, Ed.
Yerxa, Caroline Wright, He.

Dark Harbor 505 College Road
Old Town Indian Island, Old Town
Clinton 380 College Road

TWO-YEAR COURSE IN AGRICULTURE

FIRST YEAR

Stevens, Joseph Benjamin

Augusta

25 Grove Street

SUMMER SESSION, 1939

STUDENTS REGISTERED FOR GRADUATE CREDIT

Abbott, Helen Berry, B.S. in Ed., Fr.
Maine, 1938

Portland

Ackerman, Nettie, B.S., Bl.
Elmira, 1928

Dobbs Ferry, N. Y.

Adams, Ivan Edwin, A.B., Ed.
Aurora, 1925

Southwest Harbor

Aiken, Hilda Mary, A.B., Ed.
Hope, 1930

Alexandria Bay, N. Y.

Allen, Alden W., B.S., Ed.
Colby, 1916

Calais

Anderson, Donald Arthur, B.S., Ed.
Colby, 1932

Keser Falls

Andrews, Roland Butterfield, B.S., Ed.
Colby, 1928

Lee

Ansley, Helen B., B.S. in Ed., Hy.
Temple, 1933

Philadelphia, Pa.

Arrand, Beatrice, B.S. in Ed., Ed.
Framingham State Teachers, 1931

Arlington, Mass.

- Averill, Louise Hunt, B.A., Ed. *Old Town*
Wellesley, 1937
- Axelrod, Selma Sachs, A.B., Eh. *Brooklyn, N. Y.*
Brooklyn College, 1936
- Bachman, George Nelson, A.B., Hy. *Forty Fort, Pa.*
Susquehanna, 1928
- Bailey, Margery Evalyn, B.A., Ms. *Dexter*
Maine, 1925
- Balcomb, Theodore R., B.S. in Ed., Hy. *Forty Fort, Pa.*
East Stroudsburg State Teachers, 1938
- Banks, Merton Ford, B.S., Ed. *Bangor*
Maine, 1915
- Bean, Sybil Gertrude, B.S. in Ed., Ed. *Sullivan*
Boston University, 1925
- Benner, Helen Frances, B.A., Eh. *Bangor*
Maine, 1928
- Blanchard, Estelle Sheldon, B.S., He. *Cumberland Center*
Maine, 1936
- Brackett, Madalene, B.A., Ms. *Milo*
Maine, 1925
- Brastow, Vera Estelle, B.S., He. *Brewer*
Maine, 1939
- Buck, Ellsworth George, B.S., Ed. *Poland, N. Y.*
New York State Teachers College, 1933
- Burnham, Eleanor Frances, B.S., He. *Bridgton*
Farmington Normal, 1935
- Burt, Kathleen Bertha, B.S. in Ed., Ed. *Fort Fairfield*
Farmington Normal, 1934
- Calvert, Cora Mae, B.A., Ed. *Orono*
Maine, 1909
- Canfield, Helen van Etten, B.S. in Ed., Ed. *Port Jervis, N. Y.*
New York University, 1930
- Canon, Bertha Violet, B.A., Lt. *Pittsfield, Mass.*
Smith, 1912
- Chamberlain, Dorothy Ella, A.B., Ed. *Red Bank, N. J.*
Dickinson, 1928
- Chaplin, Joseph Benjamin, B.S., Ed. *Bangor*
Maine, 1921
- Chase, Lunette Adeline, B.S. in Ed., Ed. *Stroudsburg, Pa.*
East Stroudsburg State Teachers, 1933

Chesterton, Allan Bowdoin, B.A., Ed. Maine, 1927	<i>Jonesport</i>
Christie, Lindon Edwin, B.S., Ed. Colby, 1930	<i>Monson</i>
Clark, Louise Cates, A.B., Ed. Colby, 1925	<i>Dover-Foxcroft</i>
Clement, Stanley Luther, B.S., Ed. Colby, 1932	<i>Newport</i>
Colby, Barbara, B.S. in Ed., Ed. Maine, 1937	<i>South Paris</i>
Collins, Eugene William, A.B., Eh. Villanova, 1933	<i>Paulsboro, N. J.</i>
Conley, Katharine Amanda, A.B., Eh. Beaver, 1925	<i>Ellsworth</i>
Cook, Esther Brayton, A.B., He. Bates, 1931	<i>New Bedford, Mass.</i>
Coombs, Elizabeth Marie, B.S., He. Farmington Normal, 1938	<i>Boothbay Harbor</i>
Coons, Erwin Leach, B.S., Ms. Wesleyan, 1930	<i>Poughkeepsie, N. Y.</i>
Cowdrey, Corinne, B. S. in Ed., Ed. Boston University, 1932	<i>Needham, Mass.</i>
Cox, Edwin Allerton, B.S. in Ed., Ed. Boston University, 1932	<i>Montague, Mass.</i>
Crockett, Christine May, B.S., He. Framingham State Teachers, 1935	<i>Tenants Harbor</i>
Crosby, Claire Alice, A.B., Eh. Colby, 1925	<i>Milo</i>
Croxford, Horace Alcander, B.A., Ed. Maine, 1930	<i>Orono</i>
Crozier, Edgar Raymond, B.A., M.S., Ed. Maine, 1927, 1932	<i>Brownville</i>
Cutts, Cecil Jewett, B.A., Ed. Maine, 1925	<i>Harland</i>
Daigle, Yvonne, B.S. in Ed., Ed. Maine, 1938	<i>Augusta</i>
Dayharsh, Elizabeth Lee, A.B., Ed. Syracuse, 1928	<i>Syracuse, N. Y.</i>
Dekin, Albert Arch, B.S., Ed. Maine, 1932	<i>Danforth</i>

Diggery, Gertrude Jessie, A.B., Eh. Bates, 1932	<i>Sanford</i>
DiPalma, Fenisia Aurora, B.A., Ed. Brooklyn College, 1938	<i>Brooklyn, N. Y.</i>
Dixon, Harold Sisly, B.S. in Ed., Ed. Eastern State Teachers College, 1931	<i>Blue Island, Ill.</i>
Dole, Francis Stone, B.S., Ed. Maine, 1925	<i>South Brewer</i>
Donald, Edmund William, B.P.E., Ed. Springfield College, 1921	<i>Troy, N. Y.</i>
Dorr, Frank Edward, A.B., Ed. Bates, 1925	<i>East Orland</i>
Dow, Vivian Jennie, B.A., Ed. Maine, 1936	<i>Stillwater</i>
Drisko, Clarence Holmes, B.S., Ed. Maine, 1921	<i>Bangor</i>
Dwyer, Lawrence Wendell, A.B., Ed. Colby, 1938	<i>Hermon</i>
Dyer, Caleb Ford, B.S., Ed. Bowdoin, 1930	<i>Dover-Foxcroft</i>
Eaton, Stanley Boyd, B.S., Ed. Maine, 1931	<i>Howland</i>
Elliott, Linwood Shaw, B.S., Hy. & Gt. Maine, 1932	<i>Portland</i>
Factor, Oscar, B.S. in Ed., Hy. City College of New York, 1938	<i>New York, N. Y.</i>
Farrell, Duncan Henry, B.S., Ed. Springfield College, 1935	<i>Bath</i>
Fife, Erna Jonas, A.B., A.M., Ms. Barnard, 1931; Columbia, 1932	<i>New York, N. Y.</i>
Fife, Herzl Bernard, A.B., A.M., Py. New York University, 1931; 1933	<i>New York, N. Y.</i>
Finley, Raymond Stevens, B.A., Ed. Maine, 1925	<i>Pittsfield</i>
Flynn, James Hammond, B.A., Ms. Maine, 1938	<i>Machiasport</i>
Flynt, Willard Curtis, A.B., Ed. Colby, 1934	<i>Oakfield</i>
Footit, Marie Theresa, B.Ed., Ed. Teachers College of Connecticut, 1936	<i>Middletown, Conn.</i>

- Foss, Eleanor Frances, B.A., Ed. *Melrose, Mass.*
Wheaton, 1936
- Gallagher, Thelma Wanetta, B.S., He. *Caribou*
Farmington Normal, 1937
- Gillis, Hugh Allen, B.S., Es. *Lincoln*
Maine, 1939
- Gleason, Eleanor Mary, S.B., Zo. *Wakefield, Mass.*
Simmons, 1932
- Goggin, Mary Elizabeth, B.A., Hy. *Vernon, N. Y.*
Keuka, 1930
- Gonzales, Florence Marie, B.S. in Ed., Eh. *Hoboken, N. J.*
Fordham, 1939
- Goodwin, Merle Stanley, B.S. in C. Ed., *Wethersfield, Conn.*
Ed.
Maine, 1937
- Gove, Guy Harold, B.S., Ed. *Brewer*
Bates, 1913
- Graber, Joseph Homer, B.S., Ed. *Chester, Pa.*
Pennsylvania State College, 1910
- Grant, Gardner Coffin, B.A., Ed. *Cherryfield*
Maine, 1937
- Groff, Mary Spotten, B.A., Eh. *Columbia, Pa.*
Lebanon Valley, 1934
- Guyette, George Francis, Ph.B., Ed. *Woonsocket, R. I.*
Brown, 1928
- Harlow, Robert Lowe, B.S., Ed. *Fairfield*
Colby, 1930
- Hickey, John Henry, B.Ee., Ed. *Jersey City, N. J.*
Catholic University, 1932
- Hicks, Charles Chester, A.B., Es. *Columbia Falls*
Colby, 1931
- Higgins, Errol Verlane, B.A., Ed. *Mapleton*
Maine, 1934
- Higgins, Leslie Alonzo, B.S. in Ed., Ed. *Bar Harbor*
Maine, 1933
- Hilton, Ethel Mary, B.S., He. *Athens*
Maine, 1932
- Hinkley, Ruth Constance, B.A., Eh. *Brewer*
Maine, 1936
- Howe, Inez Lubel, B.A., Eh. *Bryant Pond*
Maine, 1933

- Hughes, Arvilla Jane, A.B., Eh. *Punxsutawney, Pa.*
Allegheny, 1934
- Hunt, Elizabeth Louise, A.B., Ed. *Hebron*
Bates, 1937
- Hunter, Helen Heyd, A.B., Es. *Freeport, N. Y.*
Adelphi, 1931
- Hussey, Mary Lucia, A.B., Ed. *Mars Hill*
Wheaton, 1939
- Husson, Chesley Haywood, B.S. in Ed., *Bangor*
M.S. in Ed., Es.
Salem State Teachers, 1926; Maine, 1939
- Husson, George Edwin, B.S. in Ed., Ed. *Lynn, Mass.*
Salem State Teachers, 1935
- Ingraham, Ruth Marion, B.S., Ed. *West Claremont, N. H.*
Keene State Teachers, 1934
- Jaffe, Herbert, B.Ed., Ed. *New Britain, Conn.*
Teachers College of Connecticut, 1937
- Jenkins, William Henry, B.S. in Ed., Ed. *Fort Fairfield*
Maine, 1921
- Johnson, Joyce Hope, B.S., He. *Brownville Junction*
Farmington Normal, 1938
- Johnson, Marada Lucy, B.S., M.S., He. *Pittsfield*
Maine, 1927; Cornell University, 1931
- Jones, Kenneth Gordon, A.B., Ed. *Brewer*
Bates, 1935
- Jones, Merle Sewall, B.S., Ed. *Liberty*
Maine, 1935
- Keirstead, Kathryn Jean, B.A., Ed. *Westfield*
Maine, 1931
- Knight, Evelyn Bertha, B.S., Ed. *Westbrook*
Farmington Normal, 1937
- Koory, Louise Helen, B.S., Ed. *Malone, N. Y.*
New York State College for Teachers, 1932
- Langdon, Irene Margaret, A.B., Hy. *Kittery*
Boston University, 1935
- Laverty, Merton Everett, B.S., Ed. *Hebron*
Colby, 1923
- Laurie, Christabel Finley, B.Ped., Ed. *Brewer*
Maine, 1926
- Leavitt, Charles Ralph, B.S. in Ed., Ms. *West Enfield*
Maine, 1939

Foss, Eleanor Frances, B.A., Ed. Wheaton, 1936	<i>Melrose, Mass.</i>
Gallagher, Thelma Wanetta, B.S., He. Farmington Normal, 1937	<i>Caribou</i>
Gillis, Hugh Allen, B.S., Es. Maine, 1939	<i>Lincoln</i>
Gleason, Eleanor Mary, S.B., Zo. Simmons, 1932	<i>Wakefield, Mass.</i>
Goggin, Mary Elizabeth, B.A., Hy. Keuka, 1930	<i>Vernon, N. Y.</i>
Gonzales, Florence Marie, B.S. in Ed., Eh. Fordham, 1939	<i>Hoboken, N. J.</i>
Goodwin, Merle Stanley, B.S. in C. Ed., Ed. Maine, 1937	<i>Wethersfield, Conn.</i>
Gove, Guy Harold, B.S., Ed. Bates, 1913	<i>Brewer</i>
Graber, Joseph Homer, B.S., Ed. Pennsylvania State College, 1910	<i>Chester, Pa.</i>
Grant, Gardner Coffin, B.A., Ed. Maine, 1937	<i>Cherryfield</i>
Groff, Mary Spotten, B.A., Eh. Lebanon Valley, 1934	<i>Columbia, Pa.</i>
Guyette, George Francis, Ph.B., Ed. Brown, 1928	<i>Woonsocket, R. I.</i>
Harlow, Robert Lowe, B.S., Ed. Colby, 1930	<i>Fairfield</i>
Hickey, John Henry, B.Ee., Ed. Catholic University, 1932	<i>Jersey City, N. J.</i>
Hicks, Charles Chester, A.B., Es. Colby, 1931	<i>Columbia Falls</i>
Higgins, Errol Verlane, B.A., Ed. Maine, 1934	<i>Mapleton</i>
Higgins, Leslie Alonzo, B.S. in Ed., Ed. Maine, 1933	<i>Bar Harbor</i>
Hilton, Ethel Mary, B.S., He. Maine, 1932	<i>Athens</i>
Hinkley, Ruth Constance, B.A., Eh. Maine, 1936	<i>Brewer</i>
Howe, Inez Lubel, B.A., Eh. Maine, 1933	<i>Bryant Pond</i>

- Hughes, Arvilla Jane, A.B., Eh. *Punxsutawney, Pa.*
Allegheny, 1934
- Hunt, Elizabeth Louise, A.B., Ed. *Hebron*
Bates, 1937
- Hunter, Helen Heyd, A.B., Es. *Freeport, N. Y.*
Adelphi, 1931
- Hussey, Mary Lucia, A.B., Ed. *Mars Hill*
Wheaton, 1939
- Husson, Chesley Haywood, B.S. in Ed., *Bangor*
M.S. in Ed., Es.
Salem State Teachers, 1926; Maine, 1939
- Husson, George Edwin, B.S. in Ed., Ed. *Lynn, Mass.*
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- Ingraham, Ruth Marion, B.S., Ed. *West Claremont, N. H.*
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Maine, 1921
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Farmington Normal, 1938
- Johnson, Marada Lucy, B.S., M.S., He. *Pittsfield*
Maine, 1927; Cornell University, 1931
- Jones, Kenneth Gordon, A.B., Ed. *Brewer*
Bates, 1935
- Jones, Merle Sewall, B.S., Ed. *Liberty*
Maine, 1935
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Maine, 1931
- Knight, Evelyn Bertha, B.S., Ed. *Westbrook*
Farmington Normal, 1937
- Koory, Louise Helen, B.S., Ed. *Malone, N. Y.*
New York State College for Teachers, 1932
- Langdon, Irene Margaret, A.B., Hy. *Kittery*
Boston University, 1935
- Laverty, Merton Everett, B.S., Ed. *Hebron*
Colby, 1923
- Laurie, Christabel Finley, B.Ped., Ed. *Brewer*
Maine, 1926
- Leavitt, Charles Ralph, B.S. in Ed., Ms. *West Enfield*
Maine, 1939

- Leighton, Melvin Theodore, B.S. in Ed., *Bangor*
Ed.
Maine, 1939
- Littlefield, Sarah Wells, B.S., He. *Brewer*
Maine, 1938
- Loud, Eleanor Beal, S.B., He. *Rockland, Mass.*
Simmons, 1931
- Loveitt, Rosella Adeline, B.A., Hy. & Gt. *South Portland*
Maine, 1930
- McGrath, George Edward, B.S., Ed. *Ware, Mass.*
Notre Dame, 1935
- McKeen, Earle Alton, B.S., Ed. *Ashland*
Colby, 1929
- McKenney, Leroy Nelson, B.A., Ed. *Duxbury, Mass.*
Maine, 1920
- McKinney, Ruth Elizabeth, B.S., He. *Lake Ariel, Pa.*
Pennsylvania State College, 1937
- McLaughlin, Ruth Helen, B.S. in Ed., Hy. *Washburn*
Maine, 1938
- McMahon, Helen Mary, B.S., Ed. *West Haven, Conn.*
Tufts, 1922
- MacLaughlin, Christine Marie, B.A., Py. *Malden, Mass.*
Maine, 1927
- Matthews, Rachel, B.A., Ed. *Hampden Highlands*
Maine, 1930
- Merrifield, Mildred Ellis, B.A., Ed. *Washington*
Maine, 1931
- Merritt, Avis Edna, A.B., Eh. *Presque Isle*
Colby, 1935
- Mildram, Doris Evelyn, B.S.E., Ed. *Greenwood, Mass.*
Boston University, 1928
- Miller, Louise Brookes, B.A., Ed. *Orono*
Bethany, 1931
- Miller, Rose Mary, B.S., Ed. *Groton, Vt.*
Middlebury, 1933
- Moore, Christine Mary, B.S., He. *Prospect Park, Pa.*
Drexel Institute, 1938
- Moore, Luther Franklin, Jr., A.B., M.A., *Glens Falls, N. Y.*
Ed.
Stanford, 1929; 1931

Morrison, George Ira, B.S. in Ed., Ed. Maine, 1936	<i>Perry</i>
Morse, Dorothy Lucile, B.S. in Ed., Ed. Boston University, 1936	<i>Jay</i>
Moynihan, Estelle Margaret, B.A., Eh. Minnesota, 1914	<i>Northfield, Minn.</i>
Mullaney, Ellen Mary, B.A., Ed. Maine, 1930	<i>Bangor</i>
Munyan, Viola Iydelle, B.S. in Ed., Ed. Framingham State Teachers, 1930	<i>Salem, Mass.</i>
Murtha, George Lester, A.B., Ed. Southern College, 1930	<i>New Britain, Conn.</i>
Myers, Frank William, B.A., Hy. & Gt. Maine, 1935	<i>Old Town</i>
Neal, Elsie Doris, B.S. in Ed., Eh. Salem State Teachers, 1935	<i>Lynn, Mass.</i>
Newell, Harry Sevey, A.B., Pa. Bates, 1921	<i>Orono</i>
Nolan, Mary Esther, B.S.C., Es. New York State Teachers College, 1935	<i>Utica, N. Y.</i>
Nutter, Jennie Louise, A.B., Hy. Colby, 1926	<i>Fairfield</i>
Nutting, Theodore Ernest, B.A., Ed. Maine, 1932	<i>Vinalhaven</i>
Parker, Eleanor Marie, B.A., Lt. New Rochelle, 1931	<i>Ansonia, Conn.</i>
Parsons, Frederick Henry, B.A., Ms. Maine, 1925	<i>Snyder, N. Y.</i>
Patterson, Hazel Elizabeth, B.S., Ed. Farmington Normal, 1931	<i>Vassalboro</i>
Perfetti, Carmella Mary, B.A., Rl. Albertus Magnus College, 1936	<i>Ansonia, Conn.</i>
Perkins, Bernard Gordon, B.A., Ms. Maine, 1937	<i>Orono</i>
Perkins, Henry Girard, B.S., Ed. Maine, 1925	<i>West Brooksville</i>
Peters, Frederick Vincent, B.S. in Ed., Ed. New York University, 1932	<i>Dexter</i>
Phillips, James William, B.A., Ed. New York State College for Teachers, 1920	<i>Woodbury, N. J.</i>
Pineo, Ruth, A.B., Eh. Colby, 1931	<i>Milo</i>

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|----------------------------------------------------------------------------------|---------------------------|
| Pope, Gardner Chase, A.B., Ed.
Bowdoin, 1934 | <i>East Machias</i> |
| Powell, Floyd Llewellyn, B.S. in Ed., Ed.
Maine, 1935 | <i>Pittsfield</i> |
| Pratt, Laura Estelle, B.Ped., Ed.
Maine, 1925 | <i>Troy</i> |
| Preston, Nathalie Frances, B.S., He.
Farmington Normal, 1932 | <i>Sanford</i> |
| Prince, Margaret Melvina, A.B., Ed.
Bates, 1937 | <i>Sabattus</i> |
| Pulling, Anne Dorland, A.B., Fr.
New York State College for Teachers, 1925 | <i>Cayey, Puerto Rico</i> |
| Randall, Adeline Gertrude, B.E., Ed.
Rhode Island College of Education, 1930 | <i>Woonsocket, R. I.</i> |
| Reary, Arthur Robert, B.S., Ed.
Shippensburg State Teachers, 1933 | <i>Boyertown, Pa.</i> |
| Reary, Hilda Schwenk, Ph.B., Ed.
Muhlenberg, 1934 | <i>Boyertown, Pa.</i> |
| Reed, Carl Eugene, B.S., Ed.
Colby, 1935 | <i>Island Falls</i> |
| Riley, Clyde Elwood, A.B., Ed.
Colby, 1927 | <i>Westboro, Mass.</i> |
| Ripley, Lucinda Elizabeth, B.A., Pb.
Maine, 1935 | <i>South Paris</i> |
| Rivenburg, Russell Rhodes, B.S. in Ed.,
Ed.
Mansfield State Teachers, 1932 | <i>Clifford, Pa.</i> |
| Rowe, Mary Ellen, A.B., Ed.
Bates, 1935 | <i>West Minot</i> |
| Ryan, Rosemary Patricia, B.S. in Ed., Hy.
Westfield State Teachers, 1936 | <i>Westfield, Mass.</i> |
| Sargent, Abby Louise, B.A., Ed.
Maine, 1932 | <i>Sargentville</i> |
| Schmitt, Leonard John, A.B., Ed.
Kentucky Wesleyan, 1931 | <i>New Britain, Conn.</i> |
| Seavey, Barbara Eunice, B.S. in Ed., Hy.
Maine, 1939 | <i>Bangor</i> |
| Scribner, Josephine Clark, A.B., Ed.
Colby, 1908 | <i>Newport</i> |
| Sherman, Ivan Cecil, B.A., Eh.
Maine, 1932 | <i>Union</i> |

- Shibles, Perry Foster, B.S., Ed. *Dover-Foxcroft*
Colby, 1927
- Shuster, Olive May, B.S. in Ed., Ed. *Newtown, Pa.*
East Stroudsburg State Teachers, 1937
- Simmons, Dana Maxwell, B.S., Ed. *Orono*
Colby, 1931
- Skidds, Albert Leroy, A.B., Ed. *Jonesboro*
Colby, 1933
- Smith, Geneva May, B.S. in Ed., B.A., Ms. *East Corinth*
Boston University, 1924; Maine, 1931
- Smith, Janette Winslow, S.B., He. *Bath*
Simmons, 1929
- Smith, John Harold, B.A., Ed. *Caratunk*
Maine, 1928
- Smith, Ralph Stanley, A.B., Ed. *Carmel*
Bowdoin, 1930
- Snare, Josephine Weick, B.A., *Hampden Highlands*
Maine, 1937
- Spalding, Edward Lewis, B.S., Ed. *Newburyport, Mass.*
Maine, 1935
- Stebbins, Winnifred Goodwin, B.S. in Ed., *St. John, N. B., Canada*
Eh.
Boston University, 1936
- Stevens, Margaret Faustena, S.B., He. *Rockland*
Simmons, 1934
- Stover, Marion Dinsmore, B.S., He. *South Portland*
Farmington Normal, 1938
- Stults, Verna Henrietta, B.S., Ed. *Portland*
Farmington Normal, 1934
- Swan, Robert Girtin, B.S., Ed. *Warrensburg, N. Y.*
Springfield College, 1934
- Sylvester, Flora Stone, B.S., He. *Fort Fairfield*
Maine, 1935
- Tarbox, Fred August, B.S., Ed. *Calais*
Colby, 1923
- Thompson, Marjorie Evelyn, B.S., He. *Biddeford*
Maine, 1938
- Thorndike, Margery Smith, S.B., He. *Skowhegan*
Simmons, 1914
- Tibbetts, Margaret Alice, B.Ped., Ed. *East Winthrop*
Maine, 1923

- Tripp, Jennie Gladys, B.S. in Ed., Hy. *Hempstead, N. Y.*
Boston University, 1926
- Violette, A. Genevieve, B.A., M.A., Ed. *Milford*
Maine, 1921; 1924
- Vose, Edward Rich, B.S., Ms. *Miami, Fla.*
Maine, 1930
- Wakefield, Vachel Lindsay, A.B., Hy. *Bangor*
Hiram, 1930
- Walker, Carleton Leslie, A.B., Ed. *Middletown, Conn.*
Bates, 1923
- Wall, Adelaide Murrell, M.S., Ed. *Bangor*
Pittsburgh, 1936
- Wall, Lillian Frances, B.A., Ed. *Bangor*
Maine, 1934
- Ward, Frederick George, B.S., Ed. *Sharon, Mass.*
Norwich, 1933
- Waterhouse, Frank Chester, B.A., Ed. *Old Town*
Maine, 1933
- White, Marjorie, A.B., Ms. *Newport*
Bates, 1918
- White, Mildred Osborne, B.A., Ed. *Danielson, Conn.*
Maine, 1925
- White, Ralph Rochefort, B.A., Ed. *New Haven, Conn.*
Wesleyan, 1931
- White, Sidney Parmenter, A.B., Ed.M., Lt. *Ashby, Mass.*
Middlebury, 1937; Fitchburg State Teachers, 1938
- Whitesides, Janie Elizabeth, B.C.S., Ed. *Gastonia, N. C.*
Rider College, 1933
- Whitney, Louise Sterling, B.S., Ed. *Silver Spring, Md.*
Boston University, 1934
- Whitney, Sprague Rufus, B.C.S., B.S., Ed. *Livermore Falls*
Northeastern University, 1920; Maine, 1926
- Wilhelm, Elizabeth Anne, B.A., Hy. *Chicago, Ill.*
Maine, 1929
- Williams, Warren Thurston, B.S., Ed. *Carmel, N. Y.*
New York University, 1939
- Woolweaver, Herbert Edward, B.S., Ed. *Sidney, Ohio*
Ohio University, 1930
- Wortman, Perry Gilbert, B.S., Ed. *Greenville*
Colby, 1933

Youdelman, Martin Jacques, B.C.S., B.S., *Brooklyn, N. Y.*
 LL.B., Ed.
 New York University, 1923; 1929;
 Brooklyn Law School, 1936

STUDENTS AT MARINE BIOLOGICAL STATION, LAMOINE

Deane, Helen Wendler, B.A., Zo. Wellesley, 1938	<i>Springfield, Mass.</i>
Durick, Rosemary Beatrice, B.A., Zo. University of New Brunswick, 1938	<i>Newcastle, N. B., Canada</i>
Hodges, Arthur Webster, Jr., B.A., Zo. Maine, 1938	<i>Newton Center, Mass.</i>
Kroll, Henry Michael, A.B., Zo. Clark, 1938	<i>New York, N. Y.</i>
Topping, Francis Lawrence, B.A., Zo. Maine, 1935	<i>Millbridge</i>
Wolf, Leonard Nicholas, B.S., M.S., Ph.D., Bl. Saint Vincent College, 1933; Pittsburgh, 1934; 1939	<i>McKeesport, Pa.</i>

OTHER SUMMER SESSION STUDENTS, 1939

Abbott, Clark Luce, B.A. Maine, 1933	<i>Kingfield</i>
Abbott, Linwood Austin	<i>Brewer</i>
Ackerman, Sylvia Irene	<i>Dumont, N. J.</i>
Adams, Luella Miranda, A.B. Mount Holyoke, 1910	<i>Springfield, Vt.</i>
Allen, Donald Paine, B.S., M.A. Bowdoin, 1938; Columbia, 1939	<i>Saco</i>
Anderson, Dorothy Louise	<i>New London, Conn.</i>
Anderson, Mildred Martha E.	<i>Hartford, Conn.</i>
Armstrong, Dorothy Jane	<i>South Manchester, Conn.</i>
Ashley, Guy Lamonte	<i>Westfield, Mass.</i>
Ashmore, Marion Louise	<i>Collingswood, N. J.</i>
Atwater, Frances Priscilla	<i>Bangor</i>
Bachelder, Edwin Albert	<i>Gorham</i>

- | | |
|----------------------------------------------------------------------------------------------|-----------------------------|
| Bailey, Geraldine Long, A.B., A.M.
Colorado College of Education, 1912;
Columbia, 1916 | <i>Tulsa, Okla.</i> |
| Bailey, Woodrow Franklin | <i>Lincoln</i> |
| Baker, Elizabeth Walt | <i>South Hadley, Mass.</i> |
| Ballou, Lance Chaffee, Jr. | <i>Wakefield, Mass.</i> |
| Barber, Samuel Richard | <i>Carolina, R. I.</i> |
| Barker, Charles Leroy | <i>Mechanic Falls</i> |
| Barrett, Matthew Francis | <i>Danforth</i> |
| Batchelder, Clayton Everett | <i>Saylesville, R. I.</i> |
| Beaton, Nellie Peabody | <i>Reading, Mass.</i> |
| Bellinger, Louise | <i>Waycross, Ga.</i> |
| Bendheim, John Monroe | <i>New York, N. Y.</i> |
| Berry, Grace Gibbs | <i>State College, N. M.</i> |
| Bertels, Barbara, B.A.
Maine, 1937 | <i>Bangor</i> |
| Bissell, Eleanor Louise | <i>Bangor</i> |
| Blackwood, Harold Frank, A.B., LL.B.
Maine, 1923; Boston University, 1926 | <i>West Pembroke</i> |
| Blanchard, Lawrence Russell, A. B.
Colby, 1938 | <i>Rockland, Mass.</i> |
| Bolduc, Sister St. Teresa of Jesus | <i>Biddeford</i> |
| Bolton, Effie Davis | <i>Dover-Foxcroft</i> |
| Bouch, Barbara Elaine | <i>Brewer</i> |
| Bouchard, Albert James | <i>Caribou</i> |
| Bourgoin, Louis Joseph | <i>Frenchville</i> |
| Bowden, Raymond Dwelley | <i>Rockland</i> |
| Boyce, Marguerite Mary | <i>Portland</i> |
| Brawn, William Sylvanus | <i>Islesboro</i> |
| Brinnin, John Malcolm | <i>Ann Arbor, Mich.</i> |
| Briscoe, Eleanor Louisa | <i>Orono</i> |
| Brown, Edna Carol | <i>Scotia, N. Y.</i> |
| Brown, Priscilla Evelyn | <i>Milford</i> |
| Brown, Robert Ormon, A.B.
Colby, 1936 | <i>Fairfield</i> |
| Brown, Sewall Melvin | <i>Bangor</i> |
| Brush, Edward Newcomb, A.B., A.M.,
Ph.D.
Vermont, 1925; Harvard, 1926, 1932 | <i>Orono</i> |
| Bryanton, Doris Crook | <i>Brewer</i> |
| Buchheit, Paul Raymond | <i>Trenton, Ohio</i> |

Buck, Dorothy Allen, A.B., M.A. New York State Teachers College, 1932, 1934	<i>Poland, N. Y.</i>
Burgoyne, Dorothy Evelyn	<i>Howland</i>
Burke, M. Dorothy	<i>Bangor</i>
Burns, George Elmer	<i>Mexico</i>
Byrnes, Beatrice Regina	<i>Lewiston</i>
Canty, Maxine Elizabeth	<i>Brewer</i>
Carter, Bertha Wheeler	<i>Etna</i>
Carter, Elton Stewart	<i>Mapleton</i>
Carter, Genevieve Elizabeth	<i>Ellsworth</i>
Carver, Clifford Maxwell	<i>Searsport</i>
Cassis, Mary	<i>Lewiston</i>
Chaplin, Kera Joan, B.A. Maine, 1926	<i>Cornish</i>
Child, Mildred Frances	<i>Taunton, Mass.</i>
Chilson, Howard Fisher	<i>Attleboro, Mass.</i>
Citrin, Murray Maurice	<i>Portland</i>
Clark, Alice Elisabeth	<i>Carthage, N. Y.</i>
Clark, Frederick William, B.A. Amherst, 1932	<i>Meriden, Conn.</i>
Clark, Geraldine Ann	<i>Carthage, N. Y.</i>
Clark, Janette May	<i>Wilton</i>
Clark, Leland Verdelle, B.S. Bates, 1936	<i>Presque Isle</i>
Clark, Marguerite	<i>Kennebunkport</i>
Clark, Ruth Elizabeth	<i>Carthage, N. Y.</i>
Clator, Helen Virginia	<i>Wheeling, W. Va.</i>
Clough, Charles Henry, Jr.	<i>Blue Hill</i>
Cobb, Jean Rebecca, A.B. Colby, 1938	<i>Brownville Junction</i>
Coffin, Hazel Sharpe	<i>Portland</i>
Collins, Marian Merrill, B.E. Plymouth Teachers College, 1939	<i>Laconia, N. H.</i>
Colson, Winifred Louise	<i>Stockton Springs</i>
Compaine, Daniel Raymond	<i>Hartford, Conn.</i>
Conlon, Katherine Cecilia	<i>New Cumberland, W. Va.</i>
Connor, Alfred Merle	<i>Brewer</i>
Constance, Marguerite Mary	<i>Theresa, N. Y.</i>
Cooey, Joseph Thomas	<i>St. Catherines, Ont., Canada</i>
Corrigan, Marie Gertrude	<i>Wilton</i>
Cowan, Marian Eliza	<i>Montague, Mass.</i>

Cox, William Sylvester	<i>Orono</i>
Coy, Charles Flint	<i>Bronxville, N. Y.</i>
Crane, Frederick	<i>Afton, N. Y.</i>
Crockett, Harriette Ellen	<i>Dover-Foxcroft</i>
Curran, David John	<i>Boston, Mass.</i>
Dalzell, Margaret Elizabeth	<i>Unity</i>
Darroch, William Clifton	<i>Princeton</i>
Davies, Fred Tracy	<i>Sargentville</i>
Davies, Lawrence Webber	<i>Bangor</i>
Davies, William Ellis	<i>Wollaston, Mass.</i>
Dennison, Robert Case	<i>Babson Park, Mass.</i>
DiPalma, Mary Rose	<i>Brooklyn, N. Y.</i>
Dobbins, Helen Gertrude	<i>Houlton</i>
Downs, Nellie Blanche	<i>East Dover</i>
Drinkwater, Edna Antoinette	<i>Belfast</i>
Drisko, Frank Eugene	<i>Harrington</i>
Dumont, Muriel	<i>Lewiston</i>
Dye, Pamela Elizabeth	<i>Irvington, N. J.</i>
Dyer, Clarence Aubrey, B.S., M.A. Colby, 1930; Wesleyan, 1934	<i>Houlton</i>
Elliott, Helen Irene	<i>Patten</i>
Ellis, Ernest	<i>Orono</i>
Ely, Dorothy, A.B., A.M. Olivet, 1913; Columbia, 1919	<i>Brockton, Mass.</i>
Emmett, Stora William	<i>Old Town</i>
Estabrook, Elaine Claire	<i>Bangor</i>
Fahey, John Henry	<i>Bangor</i>
Fatherson, Ruth Editha, B.A. University of Iowa, 1935	<i>New York, N. Y.</i>
Fayle, Leslie Edwin	<i>Old Town</i>
Feinburg, Leila Ruth	<i>Newton Centre, Mass.</i>
Fellows, Miriam	<i>Bangor</i>
Ferguson, John Benjamin, Jr.	<i>Philadelphia, Pa.</i>
Fessenden, Eileen	<i>Harborside</i>
Field, Elizabeth Beverly	<i>Farmingdale, N. Y.</i>
Finnigan, William Joseph	<i>New Haven, Conn.</i>
Fisher, Beth Arolyn	<i>Pembroke</i>
Fisher, Helen Rebekah	<i>Sabattus</i>
Freeman, Nellie Kemp	<i>Dayton</i>
Fritz, Frances Flossie	<i>Carthage, N. Y.</i>
Fursman, Joseph Lake	<i>Schenectady, N. Y.</i>

Gardy, Emma Barbara, B.S. in Ed. University of Pennsylvania, 1926	<i>Doylestown, Pa.</i>
Gendreau, Rita Edythe	<i>North Vassalboro</i>
George, Ada Pauline, B.S. in Ed. Boston University, 1933	<i>Smyrna Mills</i>
Gilliland, William Lester, B.S., M.S., Ph.D. University of Washington, 1920, 1921; Massachusetts Institute of Technology, 1925	<i>Orono</i>
Gleason, Magnus C.	<i>Glens Falls, N. Y.</i>
Gleason, Wallace Fred, Jr., B.A. Maine, 1938	<i>South Portland</i>
Glueth, Lillian Gail	<i>Arlington, Mass.</i>
Godwin, Halsted Buel	<i>Orono</i>
Goff, Ava Estelle	<i>Dover-Foxcroft</i>
Goodwin, Donald Watson	<i>Alfred</i>
Gordon, Vivian Agnes, B.S. New York State College for Teachers, 1933	<i>Gilboa, N. Y.</i>
Grant, Buford Leach	<i>Bangor</i>
Gray, Myrtle Avena	<i>East Pepperell, Mass.</i>
Greenier, Eleanor Lenora	<i>Dover-Foxcroft</i>
Grey, Una Blodget	<i>North Castine</i>
Griffin, Edna Mae	<i>Bangor</i>
Gustin, Dorothy Ida	<i>Bangor</i>
Hallett, Muriel Barbara, A.B. Colby, 1933	<i>Houlton</i>
Halliday, Harry Horn	<i>Newtonville, Mass.</i>
Hamlin, Clara Nina	<i>Newburg</i>
Hamlin, Margaret Julia	<i>Bethel</i>
Hannon, Esther Mary	<i>New Britain, Conn.</i>
Hanson, Gilbert Eugene	<i>Machiasport</i>
Hart, Ann Arlene	<i>South Hope</i>
Harvey, Ilga Frances, A.B., LL.B. Wesleyan, 1906; American Extension, 1932	<i>New Britain, Conn.</i>
Haskell, William Andrew	<i>Blue Hill</i>
Hassell, Bernice	<i>Sebec Station</i>
Hawes, Harriet Hyde	<i>West Somerville, Mass.</i>
Hayes, Prudence Elaine, B.A. Maine, 1935	<i>Orono</i>
Haynes, Mildred Hamlin	<i>South Waterford</i>
Henry, Dorothy Eleanor	<i>Somerville, N. J.</i>

McGuire, Mildred Eddy	<i>Bangor</i>
McKenney, David Harrison	<i>Jay</i>
McLaughlin, Ellie	<i>Waldoboro</i>
McLean, Vera Irene	<i>Old Town</i>
McNeil, Margaret Mary	<i>Mattawamkeag</i>
Mahan, Kathryn Elizabeth Alberta, B.Ed. Clark, 1938	<i>Worcester, Mass.</i>
Malkas, Francis John	<i>Bayonne, N. J.</i>
Mann, Ivie Wendell	<i>Hodgdon</i>
Marco, Helen Elizabeth	<i>Arlington, Mass.</i>
Marston, Grace Dunton	<i>Westbrook</i>
Marston, Leslie Pembroke	<i>Westbrook</i>
Marston, Margaret DeForest	<i>East Orange, N. J.</i>
Martin, Margaret Loretta	<i>Brockton, Mass.</i>
Matteson, Mildred G.	<i>Johnson City, N. Y.</i>
Mayforth, Eileen Maureen	<i>Glenbrook, Conn.</i>
Mayo, Erskine Bronson, Jr.	<i>Westfield, N. J.</i>
Meader, Ida Brackett	<i>Rochester, N. H.</i>
Meisner, Marjorie Bessie	<i>Medford, Mass.</i>
Merrill, Elizabeth Powers	<i>Skowhegan</i>
Merrill, Margaret Lander	<i>Skowhegan</i>
Metzger, Lena Barbara	<i>Decatur, Ill.</i>
Michael, Helen Woods, B.L. Ohio Wesleyan, 1911	<i>Sidney, Ohio</i>
Miles, Edward Hayden, B.S., M.A. East Stroudsburg State Teachers College, 1934; New York University, 1939	<i>Forty Fort, Pa.</i>
Miller, Austin Wallace	<i>Bangor</i>
Mitchell, Addie Prescott	<i>Union</i>
Moors, Vivian Imogene, B.A. Maine, 1933	<i>Orono</i>
Moriarty, Thomas Henry	<i>Concord, N. H.</i>
Morris, Robert Irving	<i>Bangor</i>
Moulton, Margaret	<i>Green Lake</i>
Moulton, Virginia	<i>Green Lake</i>
Murray, Greta Estelle, B.A. Colby, 1934	<i>Brownville Junction</i>
Myers, Wilbur Roland	<i>Bethel</i>
Naughton, Margaret Mary, B.A. Pennsylvania State College, 1933	<i>Pittsburgh, Pa.</i>
Nichols, Catherine Rita, A.B. New York State College for Teachers, 1929	<i>Oneonta, N. Y.</i>

Nichols, Relief Aurilla
 Nielsen, Thore M. R.
 Nolan, John Harrison, A.B.
 Harvard, 1939

Noling, Flora Louise
 Norton, Eleanor Maralee
 O'Brien, Jeanne Marie
 Ohnesorge, Louise Maxine
 Olsson, Eileen Dorothy
 Overlock, E. Burnell
 Page, Leonard Cleveland
 Palm, Helen Eleonora
 Palmer, Rose Mary, LL.B.
 St. Lawrence, 1916

Pattee, Barbara Elizabeth, B.E.
 Plymouth Teachers College, 1939

Patterson, Pauline Elizabeth
 Peirce, Florence Haynes
 Penney, June Elizabeth
 Perry, Anne Elizabeth
 Perry, Clarence Henry Merrill
 Peters, Frederick Vincent, B.S. in Ed.
 New York University, 1932

Peters, Mae Eileen
 Phelps, Frank VanRensselaer
 Pinette, Marion Etta
 Pinkham, Thomas Sears
 Place, Charles Hyatt, A.B.
 Colgate, 1939

Plummer, Bess Taylor, B.A.
 Minnesota, 1905
 Poirier, Mamie (Sr. Mary Theophane)
 Pope, Lillian Davis
 Powers, Marion Porter
 Pratt, William Veazie, Jr.
 Puffer, Ida Bridgham
 Pugh, Leona Eymer
 Quittmeyer, Charles Loreaux
 Raby, Adrienne Marie, A.B., LL.B.

 Smith, 1914; American Extension, 1932

Ramsdell, Beatrice Mary

*North Brooksville
 Lier, Norway
 Springfield, Mass.*

*South Orange, N. J.
 Springfield, Mass.
 Jersey City, N. J.
 Kennebunkport
 Harmon, Ill.
 Saylesville, R. I.
 Brewer
 Milford, Mass.
 New York, N. Y.*

Plymouth, N. H.

*Presque Isle
 Bangor
 Bangor
 Bangor
 Hartland
 Dexter*

*Decatur, Ill.
 New York, N. Y.
 Waterville
 Fort Kent
 New Rochelle, N. Y.*

Minneapolis, Minn.

*Biddeford
 East Machias
 Bangor
 Belfast
 Columbia Falls
 Scotia, N. Y.
 Peekskill, N. Y.
 New Britain, Conn.*

Columbia Falls

Rankin, Viola Mildred

Reinhardt, John Adam, B.S.

New York University, 1936

Reinhardt, Lillian Anderson

Reitz, John Addison

Richard, Albert, Jr.

Risley, Mary Veronica

Robinson, Glenn Meredith

Rogers, Roberta Frances

Rollins, Grace Marion

Rollman, Carl Phillip

Rose, Ethel May

Rowley, Phyllis

Russell, Doris

Ryan, Georgiana Gertrude

Savage, Lucian Odel

Sawyer, Ethel Elma

Sawyer, Gertrude Yeaton

Sawyer, Louise Davis

Sawyer, Neil Gould

Sawyer, Roland Darrow, B.S.

Massachusetts State, 1926

Scully, Agnes Louise

Seabury, Edwin Morey

Selwood, Helen Woodworth

Sewall, Edgar Fuller

Shannon, Clayton William

Sheedy, John Richmond

Sheetz, Catherine Cornell

Sheppard, Fay

Shesong, Faith Lovejoy, B.A.

Maine, 1938

Shiro, James Cople

Shuster, Carol Ewing

Simpson, Margaret Lilla, B.S. in Ed., M.A. Westmont, N. J.

University of Pennsylvania, 1935, 1939

Small, Gerald Turner, B.A.

Maine, 1939

Smith, Basil Lougee

Smith, Evelyn Clara, B.A.

Maine, 1928

Melrose, Mass.

Jersey City, N. J.

Jersey City, N. J.

Waltham, Mass.

Columbia Falls

Oneida, N. Y.

Bangor

Portland

Dexter

Rhineland, Wisc.

Humboldt, Kan.

Gloucester, Mass.

Schroon Lake, N. Y.

Hempstead, L. I., N. Y.

Etna

Dover-Foxcroft

East Corinth

Southboro, Mass.

Easton

Southboro, Mass.

Newton, Mass.

Orono

Perry

Bangor

St. Petersburg, Fla.

Groton, Mass.

Chillicothe, Mo.

Plainfield, N. J.

Portland

Old Town

Newtown, Pa.

Westmont, N. J.

Milbridge

Winterport

Orono

Smith, Francis Wager, Jr.
Smith, Jessie Evelyn
Smith, Phoebe Prout
Smith, Priscilla Alden
Soper, Marie Jewett
Soule, Laurence William
Southard, Alma Avis
Spaulding, Bertha Howard
Spruce, Helen Carmelita
Spruce, Irene Burr
Spurling, Marion Estelle
Stanton, Prudence Lucille
Stinson, Lois Elizabeth
Stone, Edith Marie, B.S., M.A.

Temple, 1932; University of Pennsylvania, 1938

Strang, Irene M.
Strombeck, Stanford Alexander
Strout, Donald James
Strout, Francis Leroy
Studer, Marjorie E.
Syphers, Ansel James
Tarbell, Gridley Weatherbee
Tash, Florence Evelyn
Taylor, Clyde Churchill
Taylor, Gordon MacLeod
Thayer, Mildred Natalie
Thombs, Dorothy Margaret
Thompson, Thomas Garland
Tolman, Marthon Gregory
Tomalin, Doris
Tracy, Carrie Witham
Tracy, Lela Burgess
Travis, Edith Marcella
Treadwell, Jane Elizabeth
Underwood, Julius Erwin, Jr.
Wagnis, Joseph John
Ward, Harriette Mary
Watson, Carline Wilda
Watson, Geraldine Eames
Webber, Lewis Ervin
Webber, Louise Clark

Portland
East Corinth
Stamford, N. Y.
Bangor
Newport
Augusta
Kenduskeag
West Palm Beach, Fla.
Old Town
Orono
Islesford
Mechanic Falls
Stonington
Philadelphia, Pa.

Decatur, Ill.
Monson
Brownville
Milbridge
Greenfield, Mass.
Mars Hill
Bangor
Lincoln
Boothbay Harbor
East Orange, N. J.
Brewer
Brownville Junction
Long Beach, N. Y.
Portland
Woodbridge, N. J.
North Castine
Hartland
Brimfield, Ill.
Salem, Mass.
Wallingford, Pa.
Pownal
Brunswick
Bangor
Bangor
Saco
Saco

Webster, Marguerite Mary	<i>Brooklyn, N. Y.</i>
Weeks, Gertrude	<i>Patten</i>
Wehr, Elizabeth Wayno, B.S. in Ed.	<i>Dalton, Pa.</i>
Marywood, 1936	
Welch, Marietta Pauline	<i>Machiasport</i>
Wessel, Lois Perkins	<i>West Brooksville</i>
Weston, Iva Mertelle	<i>Bangor</i>
Whitcomb, Charles Floyd, B.A.	<i>New Sharon</i>
Maine, 1925	
White, Ernest Kelsey	<i>Thompsonville, Conn.</i>
White, Ralph Hubert, Jr.	<i>Jonesboro</i>
Whitney, Eva Amelia	<i>Kenduskeag</i>
Williams, Emma Louise	<i>Stamford, Conn.</i>
Williams, George William	<i>Manville, R. I.</i>
Willman, Amy Elizabeth	<i>Scarboro</i>
Witte, Elizabeth Catherine	<i>Bangor</i>
Wood, Pierpont Jeffris	<i>Rhineland, Wisc.</i>
Wyman, Walter Edward	<i>Brewer</i>
Yates, Clifford Thomas	<i>Chappaqua, N. Y.</i>
Youdelman, Edith, B.B.A.	<i>Brooklyn, N. Y.</i>
St. John's, 1938	
Young, Geneva May	<i>Brockton, Mass.</i>
Young, Shirley Cynthia, B.A.	<i>Lincolnville Beach</i>
Maine, 1934	

STUDENTS AT MARINE BIOLOGICAL STATION, LAMOINE

Bradshaw, Nancy Manning	<i>New Brighton, Pa.</i>
Gilday, Frank Joseph	<i>Scranton, Pa.</i>
Griswold, Arthur Stephen	<i>Mystic, Conn.</i>
Laird, Joan Lohra	<i>Philadelphia, Pa.</i>
Olsen, Dorothy C.	<i>West Nyack, N. Y.</i>
Pray, Lucie Adelaide	<i>Melrose, Mass.</i>
Watson, Ellen Evelyn	<i>Manchester, N. H.</i>
Woods, Mary Elizabeth	<i>Kent, Conn.</i>

Summary of Student Enrollment

1939-1940

	Men	Women	Total
Graduates	52	21	73
Seniors	304	106	410
Juniors	325	123	448
Sophomores	376	122	498
Freshmen	425	150	575
Specials	38	8	46
Upperclass Students conditioned for admission	2	—	2
Two-Year Agriculture			
1st Year	31	—	31
2nd Year	17	—	17
	<hr/>	<hr/>	<hr/>
	1570	530	2100
Summer Session	251	353	604
	<hr/>	<hr/>	<hr/>
Grand Total (omitting duplicates in Summer Session)	1782	872	2654

CLASSIFICATION BY COLLEGES

Graduate Study	52	21	73
College of Agriculture	491	196	687
College of Arts and Sciences	369	283	652
College of Technology	617	1	618
School of Education	41	29	70
	<hr/>	<hr/>	<hr/>
	1570	530	2100

CANDIDATES FOR DEGREES

Graduate Study	48	18	66
College of Agriculture	439	193	632

College of Arts and Sciences	363	282	645
College of Technology	594	—	594
School of Education	37	25	62
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	1481	518	1999

CLASSIFICATION BY RESIDENCE

Maine by counties :

Androscoggin	63
Aroostook	188
Cumberland	233
Franklin	44
Hancock	107
Kennebec	102
Knox	61
Lincoln	30
Oxford	90
Penobscot	596
Piscataquis	68
Sagadahoc	32
Somerset	86
Waldo	60
Washington	92
York	119

1971

	Regular Session	Summer Session	Total
Maine	1660	311	1971
Massachusetts	226	56	282
New York	80	65	145
Connecticut	39	26	65
New Jersey	29	21	50
Pennsylvania	6	28	34
New Hampshire	9	6	15
Rhode Island	8	7	15
Illinois	4	7	11
Vermont	4	2	6
Virginia	5	—	5
Wisconsin	2	3	5

SUMMARY OF STUDENT ENROLLMENT

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Florida	1	3	4
Ohio	—	4	4
Minnesota	1	2	3
Missouri	1	2	3
California	2	—	2
Delaware	2	—	2
Maryland	1	1	2
Michigan	1	1	2
North Carolina	1	1	2
West Virginia	—	2	2
District of Columbia	1	—	1
Indiana	1	—	1
Iowa	1	—	1
Kansas	—	1	1
Mississippi	1	—	1
Montana	1	—	1
New Mexico	—	1	1
Oklahoma	—	1	1
Oregon	1	—	1
Utah	1	—	1
Washington	1	—	1
Australia	1	—	1
Canal Zone	1	—	1
Canada	5	2	7
England	1	—	1
Norway	—	1	1
Philippine Islands	1	—	1
Territory of Hawaii	1	—	1
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	2100	554	2654

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